Master plan.

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And many of the homes do

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The Newham Tower Block

Tenants campoign is elaiming a massive government cover-up

into why the faults in Ronan

Point were never discovered

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By Alan Thompson

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He found many of the docu-

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microscope.

Sam Webb.

been removed.

Hugh Griffiths QC, who

reopened.

BBC's White City giant

THE BBC has finally unveiled plans for its new White City headquarters, and now faces tough negatiations with the cauncil to get the scheme accepted. Hammersmith & Fulham council has agreed to bold another public meeting after local residents voiced cancern about the proposals.

Described as a "conceptual design" the three-phased scheme has been prepared by the BBC's own architectural team tagether with the Norman & Dawbarn Partnership, who were respansible for the acarby Television Centre

News editor Lee Mailett 01-255 7777 ext 473.

The building's main entrance will be through a rounds lending — viu glazed walkways — to the corporation's headquariers, the radio centre, and further The corporate beadquarters will be the first phase to be completed, occupying

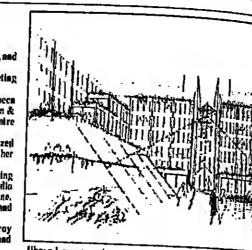
The corporate beadquarters will be the first phase to be completed, occupying the aorth-east cornor of the 7.5bs alte and acting as a buffer between the radio centre—and due to be fully occupied until 1995— Westway and Wood Lane.

External walkways will ruo around the building to provide further shude, and

make window eleaning easier.

The design/build confract is out ta teader to three shortlisted leans, Fitzroy Robinson with Tarmac, Scott Brownrigg & Turger with Balfour Beolty and Sheppard Robson with Trollape & Colls.

strengthening and rebuilding on Ronan Point carried ont after the fatalexplosion in 1968 was as structed after the explosion and



Phase I courtyurd perspectly e.

The weekly newspaper for the design team **FRIDAY OCTOBER 10 1986**

'll dump Atwell and quit Group of Eight'

Point tenants claim cover-JOB THREAT THE tenants pressure group tenants group claim to have largely responsible for the evidence that much of the strengthening and rebuilding on the strengthening and rebuilding

strengthening and rebuilding on Ronan Point carried ont after the fatalexplosion in 1968 was as badly done as the initial construction.

The controlled demolition of the block has reached the 16th

Workmanship in joints in the parts of the building reconstructed after the explosion and collapse in 196g.

Demolition contractor Griffiths McGee discovered floor sweepings and newspapers data to the block when it was rebuilt as went in hefore.

Corner of the block.

The tenants campaign says this shows the same degree of bad workmanship and lack of intenting to safety factors went into the block when it was rebuilt as went in hefore.

Windle agree the controlled and the lack of intenting to safety factors went into the block when it was rebuilt as went in hefore.

BA dli

IBA director of public Staying dry & warm in a ifairs, David Atwell, ill be ousted in a staff lake-up at Portland lace if Rod Hackney ins the presidential parties with Raymond indrews.

both about Hackney, who launched s official presidential chalnge last week, has vowed to ery seriously rethink the affing of the secretariat at

developed a new tangenflight or lland Place".

[polyester felts and sunferlighter the first person to go would polyester felts and sunferlighter the director of publicaffairs," was the nied that one HI Compressaid.

tesponsible for both the nature. Hackney has been angered metallation. The mante of that few the Hull Cudat fiasco and the ibsequent embarraasment it We taskle the whole pob. bjected to the RIBA. He also tool, prepare specification sued by the RIBA saying the uilding Communities confer-

speaker to head the public affairs department. "We want a nomination for president. person who can pick up the telephone and talk to the City, Whitehall and educationalists on a one-to-one basis. There is

By Alan Thompson

no one at the RIBA who can do that at the moment."

Atwell said: "! am not going to make any statement now. If he writes to me with his reasons I will respond then."

The Macclesfield architect's challenge from the membership to council's nomination for next year's president was backed

by more than 80 signatures.
They included Sir Hugh Casson, Geoffrey Broadbent, Richard Burton, Peter Cook, Cedric Price, Bob Maguire, and

He has at ated categorically he Il abolish the Group of Eight because it is ineffective.

He could win a strong vote from the regions with his RIBA activities.

Although the constitution does not cater for two people to

sit at the head of the institute,

Rock would be pnt forward as

Hackney's vice-president if he

wins.
Andrews has also hinted a

forthcoming changes in the RIBA's management and staff structures. "These must be improved," he said, but Iold BD

He also laid out his priorities

which include setting up a new political office which

"should encapaulate the sec-

retary's experience to lackle

government on planning, com-

Hackney is presenting a

radical approach to the prob-lema facing the RIBA.

munity architecture, fee tendering, and education".

he was against sackings.

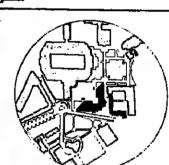
His strong association with Royalty (the Prince of Wales officially opened Hackney's self-build housing scheme is Stirling thia week) and his chompioning of the community architecture approach to building ahould also win him votes.

The winning candidate will be announced on December 10 and will take over from Larry Rolland next aummer.

Militon Keynes-based Denton, Tua-ley, Scott have won first prize in the competition for a new residential and conference centra at Aston Uniwho lost to Raymond Andrews in the competition for council'a

Their schema (pictured) was selected fram eight accand-round eatries that were invited to develop their proposale after a tatal of 91 practices submitted preliminary

L-shaped blocks (right) which are arranged to unify the central earn pus area, to bring "order and calm end



some degree of elvility to a difficult stoation". Simple, generously pro-partioned repetitive concrete struc-tural elements put together in different neurons. different ways allow a complex and sophisticated form for comparatively

ow cost.

Bob Attles and Graham Morrison were placed second nod Munkenbeck & Marebuil eame third to the

Runaers ap were Bradsbaw Gass & Hope, Axis Design, Hutebison, Loche & Mook, Jacob Blacker and Anthony Hudson & Robert Saheta.

Docklands scheme

JAMES Stirling is the first UK architect to win a commission for a major building on Canary legally binding. The signing is expected to take place in November. Wharf - and the job comes from the development consort-

He is to design a 48,000sq m office building for an unnamed client which is to contain a large Internal public space leading down to the water.

This is the fourth major commission so far on the mega-project, which is now going full steam ahead on the assumption that remaining hurdles will be

overcome within a month. The crucial traosport Bill will be debated in the Lords next week with the third reading scheduled for the 24th followed

by Royal assent. This will clear the path for the formal signing of the master building agreement with the LDDC, heads of terms for which have already been final-

On the ground, meanwhile, work is in full awing and committed expenditure is running at the rate of £10 million a month. The size of phase I of the project has already grown from the original 340,000sq m to

London high-spot

PLANNING applications have been submitted this week for what would be London's second nership have drawn up a 31-storey scheme for Friends Provident Life Office and Wates City of London Properties for a block on the south aide of London Wall near Seifert's Natwest tower, London's tollcontinued page 3 · est. Pictures page 3.

Experts working for the

Koch finds his gallery



Edward Koch, to flad an English bome for his 19th century ort collection, is

Sutton Place (above) — one of the finest Tudor houses in Brituin — was bought by Koch this week for an

undiaclosed sum. The house was put on the market in May at more than 18 million.

Formarly the home of John Pani Geity, the Grade ! listed boilding boasts --- nmong other things --- fanr galleries, a so phisticated art security and humidifying system, and new anoke detectors in all of the malo rooms.

amoke delectors is all of the malo rooms.

Koch had been negotinting to buy St John's Lodge in Regents Park, but had to abandon his plumaafter English Heritage rejected his proposals to alter the laterior.

Sutton Place is set in 145ha of tundscaped gardens and grounds, and overlooks one of the largest domestic takes in Enrope, built by the last owner, Stoaley Seegar of Wisconsia.

Position

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WHEN BP RESEARCH

AYMOND Andrews has fired even the te first aalvo in the presidential guilanal peech at the annual confarence f the Association of Consultant gritony solution and solar reflective paint used derchitecta loday attocks Hack-

and solar reflective paint used describited a loday attocks. Hack-invaliation are from BP resource by's plan to run for the presidence of the International Union. At the end of the job weisself eccy of the International Union At the end of the job weisself eccy of the International Union parameter overing built invalid. "Running a major national materials. We believe the range of salituition requires involvement, and lamit-up roofing materials we may and patience to listen to end best you can get. The British Boddersuada many, many people. Agriment has texted our Aquessa "Yat Rod Hacknay is also Aquamem materials and avaidad for a three-year term running Agriment Certificates.

Oncurrent with the RIBA presidence in the presidence of the UIA.

Next time you are considered ency. st time you are considered. "I do not bolicva anybody can specification for an appoint bit fobs properly in the 80s," fully insulated and watered as add. Cansult us and benefit feet. Hacknay has countered by

guatanteed maining pode tyling he would be delegating skyline. Saturday Review is at 7.40pm.

"The UIA is run very efficient-

ly by o four-person secretoriat in Paris," ha sald, intimating that the RIBA could also be ruo in this

Designer rethink

THE three alars of the Royal Academy's "New Architecture" exhibition get another chance to display their talents this Saturday on BBC2.

James Stirling, Richard Rogers and Norman Foster are filmed of the top of a high London building by the producer of Saturday Review, John Archer.

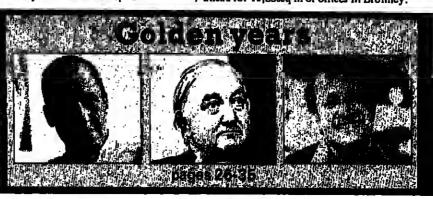
John Archer.
"We showed them just what a mesa they and their colleogues have mode of the capital," hesald. The three were challenged to redesign London's

Bromley victors

CHAPMAN Taylor & Partners with developer Capital & Counties have wonthe competition for a £50 million redesign of Bromley town centre.

Chapman Taylor beat achemes by Leslie Jones, T P Bennett and Building Design Partnership with a 33,750sq m retall and offices complex.

The scheme is due to be rubber-stamped by a special meeting of the council on November 4. Environment accretary Nicholas Ridley has over-nidden two public inquiries and given the goahead for 15,800sq m of offices in Bromley.





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ST MIGHT



ver nlets it-up

had to be called in as

council meeting last
(October 2) over
harf.
ancil was to have voted
her or not to Join other
iroughs in maintaining Wharf plan to the project and it iming clear that the injority were going to therew opposition. ing to an eye-wilness, ar group then deelded to proceedings and chairs own. The police were nd the meeting was without a vote being ren so, the council is not the scheme.

me wilness also said that he rioters were many of to be from Tower Ken Livingsione is also to have oftended.

cklands leme

lsq m with the infraire easily eapable of ing over \$80,000sq m. understood that three iles, with space requirelotaling almost

to go to Canary Wharf re expected to make

ign work is now well way for the three earlier issions, including the first three towers, designed by Pederson Fox for the tlum, which will rise to I 280m maximum permil-

tower will be flanked by wer rise buildings and its uarier will be a five-star The total floor space of PF design will be nearly

Osq m. the same time, SOM are ing a headquarters buildor consortium member an Stanley, while Credit :/First Boston is having its ng designed by I M Pei, oary Wharf now has IB ning "development par-The consortium would see a variety of elients and national architects deg within the master plan.

with the LDDC, which it hopes will be included in the corpor-A GROUP of London's Lab-our-controlled councils have ation's design guidelines.

These will be published to gether with the master building

dropped their support for an "awareness raising" publicity campaign against the Canary Wharf development in Lonagreement, once Royal assent has been given to the extension for the Docklands Light Rail-The Association of London Authorities - which represents the interests of all 13 Labourcontrolled councils — claims that the Canary Wharf develop-

By Amanda Ballileu

ment has "strategic implications" right aeross London, particularly affecting road, rail and transport systems.

Improving

prospects

for Canary

But it eannol afford a campaign of opposition.
Instead, the newly formed London Strategic Policy Unit (LSPU) should be asked to fund

don's Docklands.

the campaign.
LSPU said it was too early to

Mesnwhile, Alliance-controlled Tower Hamlets council said it was generally in favour of Canary Wharf because it means jobs for local people.

New leader Erie Flounders said: "Lying in front of bull-dozers will produce bodies, not

The council wanted to ensure maximum planning gain from the Canary Wharf developers, Tower Hamlels is critical of designs for West Ferry Circus - planned to acl as a gateway lo

the development — though it has agreed not to call for a public The circus "lacks human scale", has to rely heavily on planting to emphasise its circular form and - despite elaims - does not form a significant

open space or amenity orea, says

The council is negotiating alterations to the circus design

ivis residents say

ist exclude the 19-storey r block because it does not ir from the same problems. it this claim by the Northern nd Housing Executive is agly disputed by residents. or with its single entrance,

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vard as recommendations to hard. Needham, the North-Lighted minister at the DoE. dismissal". All other ebarge against him were thrown out at a council disciplinary hearing.

plans to demolish the eigh blocks over seven to 10 years is

committed to having some say in the plans to rehouse them.

want to involve the entire community in drawing up plans.

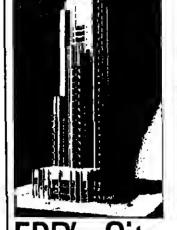
bracket.

been on the road to success. As the

released in Britain it now has the

first pitch polymer DPC to be

Mark Drummond was sacked this week for talking to the press Drummond said he would "appeal on grounds of unfair dismissai". All other charges against him were thrown out at a



LONDON's second tellest building, at 31 storeys, will be built on a block facing London Wall and Old Broad Street in the City if applications submitted todoy by the EPR Partnership are successful.

The scheme, which covers an entire block, entails demolishing Winchester I louse, a 60s office development acquired last year by Friends Provident Life Office and Wates City of Landon Properties from St Martins for £65.5 million. The new building, 100 Old Broad Street, would have a value of obout £300 million, and its 36,000sq m of uninterrupted floors are designed for fiexibility of use and geared specially for the financial market.

The site fails outside the Brink conservation area but within the cluster of tail buildings that ring the Natwess iower. Carefut consideration has been given to moderate the impact of such a substantial development by positioning lower attached blocks at each end of the site while the bulk of the central tower is modelled by exteroal service shafts. A public concourse with six points of entry occupies most of the ground level and this will contain shops, restauroots and cofes. The Royal Fine Art Commission is to view the scheme soon and a public exhibition is open from October 13-17 from 12pm-2pm of 82 t.ondon Woll, Jondon EC2.

Architect: EPR Partnership, Project and cost consultants Architect: EPR Parinership. Project and cost consultants John Shreeves & Pariners, Structural engineers: Bunyan Meyer & Pariners, M & E design: Building Services

140000

As you can see, Hyload DPC has covered a great deal in twenty-one years.

wer must go too

he Divia Estate in West sey admit that compared the deck-access blocks the

petter security, but given the to "proper" houses on the tod, they say.

to go altead.
The Divis residents are also

The residents have airendy entried out limited consultation hampered by lack of cash, and

Drummond out

LAMBETH council architect

When it comes to giving high performance, the Ruberoid Hyload DPC System is in the Pormula One strength.
This year its celebrating twenty-

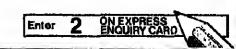
one years at the top. Its track record speaks for itself. In that time, sales alone have clocked up over 140,000 miles. That's Right from the time it received the first ever British Agrément Certificate back in 1967, Hyload's more than enough to cover central London or the whole of Birmingham!

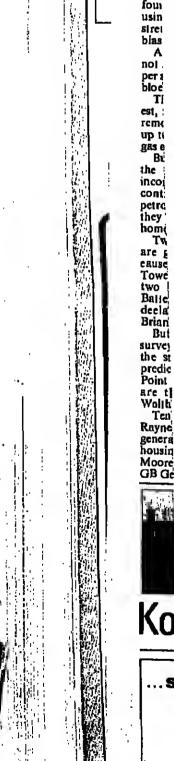
But it doesn't stop there. Hyload is still out in front successfully mastering intricate detailing longest experience on record and at corners, around concrete columns

it continues to go from strength to and changes of level in a style that Stirling Moss would appreciate. Which all goes to show that if you select the right gear, you'll always be miles ahead of the rest.



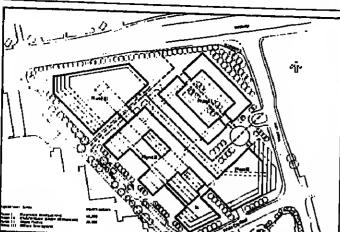
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News editor Lee Mailett S1-8SS 7777 axt 473.



Maater plan.

BBC's White City giant

THE BBC has fisally savelled plans for its new White City headquarters, and sow faces tough aegotiations with the coasell is get the scheme accepted.

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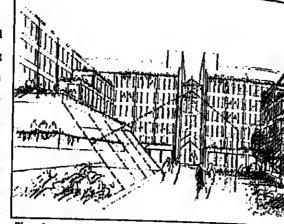
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Phase I courtyard perspective.

Tower block gas tears

A LONDON borough has found it has ototal of 2,500 flats using gas appliances and not strengthened to withstand a gas blast of 34kN per sq m

And many of the homes do not even come up to the 17kN per sq m limit recommended for blocks without gas.

The borough, Wallham Forest, is to spend £24 million on remedial work on housing and up to £1.6 million on removing

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Two blocks in the borough are giving tenants particular cause for concern. Northwood Tower and Whitebeam lowers, two blocks built to the BRS Ballery Cast system, have been declared safe by consultants Brian Moorehead & Pariners.

But tenants claim o radar survey by GB Gcolechnics the surveyors who accurately predicted the faults in Ronan oint — shows these Iwo blocks are the most dangerous of Woltbam Foresi's towers.

Tenant representative Keith Rayner is calling for a special general meeting of the council's housing committee to consider Moorehead's report and that of GB Geolechnics

THE tenants pressure group largely responsible for the evacuation and demolition of

Ronan Point is campaigning for the 1968 public inquiry into the collapse of the notorious tower block to be

The Newhsm Tower Block Tenanta campaign is cluiming a massive government eover-up into why the faults in Ronan Point were never discovered despite at least Iwo major investigations into the 21-storey block in East London.

Hugh Griffiths QC, who presided over the inquiry into the collapse in 1968, said: "The slandards of both workmanship

By Alan Thompson

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He found many of the documents were missing and on subsequent visits, key popers which he had seen before had been removed.



Koch finds his gallery



The quest of the wealthy American Edward Koch, to find as English home for his 19th centary art collectios, is

over.
Satton Place (shove) — one of the floest Tudor houses in Britain — was bought by Koch this wech for an undiscioned sam. The house was put on the market in May at more than

E8 million.

Formerly the home of John Peal Getty, the Grade I listed building hoasts — among other things — four gatieries, a sophisticated art security and humidifying system, and new amoke detectors to all of the mola

rooms.

Koch had been negotintiag to buy
St John'a Ludge la Ragents Park, bat
had tonbandon hiaplansafter Eaglish
Heritage rejected his proposais to

Positlos

Company

KINGSNORTH, HOO, ROCHESTER, KENT ME3 9ND

Sulton Place is set in 145ha of landscaped gardens and grosada, and overlooks one of the Inrgest domestic lakes in Europe, built by the last owner, Stanley Secgar of Wisconsin.

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his whereabouts plus

ing from 1972 in the woll punels of flat 77 on the north-east contact George Meso architect wha left Taylor row-Anglisn in 1968ath last known address sei Would anyone whole

Staying dry & warm in a wet environment is what we at both about.



polyester felts and single-layermenters was decided that one IIP Company shall responsible for both the materials of installation. The name of that Compart We tackle the whole job. Wemo

Aquamem materials and awarded then

Next time you are considering

. Telephone

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specification for an approach

fully insulated and waterproof

consult us and benefit from ou

guaranteed moling package.

Agrement Certificates.

Summer Summer

the full 280m maximum permit-200,000sq m. At the same time, SOM are designing a headquarters build-

ing for consortium member Morgan Stanley, while Credit Suisse/First Boston is having its building designed by 1 M Pei. Canary Wharf now has 18 remaining "development parcels". The eonsortium would like to see a variety of clients and international architects designing within the master plan.

The tower will be flanked by two lower rise buildings and its top quarter will be a five-star d. The total floor space of the KPF design will be nearly

ower

Hamlets

bust-up

POLtCE had to be called in as violence erupted at a Tower Hamlets council meeting last Thursday (Octaber 2) over

The csuncil was to have valed

sver whether or nst ts Jsin other

Labour baraugha in maintainia

oppssitish to the project and it was becoming clear that the

Liberal majsrily were going ts

vole to withdraw oppssilisn.
According to an eye-witness,
the Labsur grsup then decided to
break up prsceedlags and chairs

were thrswn. The pslice were

called and the meeting was

disssived witbout s vote being

The same wilcess also said that

laken. Even so, the council is not

opposing the scheme.

reported to have attended.

Docklands

sustaining over 580,000sq m.

140,000sq m, have board ap-

proval to go to Cansry Wharf

and are expected to make

commitments once the MBA is

Design work is now well

under way for the three earlier

commissions, including the first

of the three towers, designed by Kohn Pederson Fox for the

consortium, which will rise to

scheme

a council report.

Divis residents say tower must go too

on the Divis Estate in West Relfast exclude the 19-storey er block because it does not from the same problems. it this claim by the Northern and Housing Executive is

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The NIHE proposals were put forward as recommendations to Richard Needham, the North-ern Ireland minister at the DoE. against hlm were thrown out at council disciplinary hearing.

PLANS to demolish the remain- His approval is required if the ns to demolish the en

> The Divis residents are olso committed to having some say in the plans to reliouse them.

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Drummond out

LAMBETH council architect Mark Drummond was sacked this week for talking to the press Drummond said he would "appeal on grounds of unfoir dismissal". All other charges against hlm were thrown out at a

Improving prospects for Canary Wharf plan

A GROUP of London's Labour-controlled councils have dropped their support for an 'awareness raising" publicity eanipaign against the Conary Wharf development in Lon-

amsng the riolers were many koown not to be frsm Tower don's Docklands. Hamlets. Ken Livingstsne is alss The Association of London Authorities — which represent the interests of all 13 Lobour controlled councils - claims that the Canary Wharf development has "strategic implicat ions" right across London,

By Amanda Balllleu

particularly affecting road, rail and transport systems.

from paga 1 520,000sq m with the infra-structure easily capoble of But it cannot afford a cam psign of opposition. companies, with space require-Instead, the newly formed London Strategic Policy Unit (LSPU) should be asked to fund ments totalling almost

the campaign.
LSPU soid it was too early to

Meanwhile, Alliance-cont rolled Tower Hamlers council said it was generally in favour of Canary Wharf because it means

jobs for local people. New leader Eric Flounder said: "Lying in front of bull-dozers will produce bodies, not

The council wanted to ensure maximum planning gain from the Canary Wharf developers. Tower Hamlets is critica of designs for West Ferry Circus - planned to acl as a galeway to

the development - though has agreed not tocall for a publi inquiry.
The circus "lacks humar scale", has to rely heavily or planting to emphasise its cir cular form and - despite claim

- does not form a significan open space or amenity area, says

The council is negotinting

blocks over seven to 10 years is

The residents have already carried out limited consultation, hampered by lack of cash, and want to involve the entire

with the LDDC, which it hopes will be included in the corpor-

ation's design guidelines.
These will be published to gether with the master building igreement, once Royal assent has been given to the extension for the Docklands Light Rsil-

LONDON's second taltest heliding, at 31 storeys, will be built on a bisch facing London Wall and Old Broad Street in the City if applications aubmitted today by the EPR

The scheme, which covers an onlire bloch, entails demolishing Wiachester tiouse, a 60s office development acquired last year by Friends Provideot Life Office and Wates City of London Properties from 5t Marttos for £65.5 million. The new haltilag, 100 Old Brond Street, would have a value of about £300 million, and £5 36,000sq m of an actual floors are designed for flexibility of use and genred apectally for the financial market.

EPR's City giant

That ie fulfa outside the Banh conservation area but within the cluster of inii bolidags their riag the Natwest tower. Careful consideration has been given to moderate the impact of such a substantial development of such a substantial development of such a substantial development by postiliating lower attrached blocks at each end of the site while the ball of the careful included by external service shafts. A nable lawer is modelled by external service shafts. A pablic coocourse with six points of eatry occupies most of the ground level and this will contain shops, restaurants and cafes. The Royal Fine Art Commission is to view the scheme soon and a public exhibition is a pen from October t.3-17 from t2pm-2pm at 82 London Wall, London F.C.2. Architect: EPR Parinership. Project and cost consultant: John Shreeves & Pariners. Structural engineers: Busyan Meyer & Pariners. M & E design: Building Services Consultants.

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it continues to go from strength to strength. This year its celebrating twenty-

one years at the top.
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will begin next Wednesday, October 15.

Whinney MacKay-Lewis launched their placing docu-ment yesterday in preparation for the flotation on Wednesday. The document includes details of its plans for future growth, share price ond rating and profit forecast for the year ending April 1986.

Consortium anniversary

A SYMPOSIUM to mark the 25th nuniversary of the Second Consortium of Local Authorities is being held in Gloucester next week.

Property Serviens Agency design director, Bryan Jeffer son, will be delivering the keynote speech ni the mneting, which lakes place on October 14

Further details from lan Cook at the consortium a Gloucester headquarters, tel 0452

Regulations a problem

ARCHITECTS have yet to come to grips with the revised Building Regulationa and are relying too much on building control officers for advice, says Harry Chesterton, president of the Institute of Building Control. He criticised the profession during o debate on the building industry chaired by television personality Cliff Michelmore.

names day

Atwell calls for flotation
DEALING in the shares of architecture's second recruit to

for Whitehall cash boost to halt decline

with the problems facing power and lunding in govern-Britain's crumbling public sector housing and infrastructure, claimed RIBA public affairs director David

Atwell this week. In a speech at the Building 86 axhibition in London, Atwell condemned Government Inilure to let local authorities use capital receipts for housing repairs, and enlied for n mojo

He said a gradual build-up of copital investment in the public

By BD Reporters

sector was essential il we werete avoid an accelerating decline of our building stock.

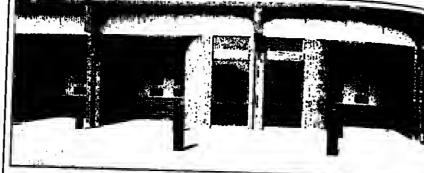
Better management ond maintenance policies for housing estates were olso necessary, while demolition of tower blocks or deck access estates ahould only take place if repair

waa too expensive to consider. Atwell argued for local auhorities to remain the catalyst for initiating work to solve the inner-city crisis.

"The creation of urban development corporations and

ment will not solve the problems of local communities and

accountability." But he urged greater involvement of the private sector in partnership with council, praising the partnership acheme launched by contractor Lovell.



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you can put it.

freeport plan The West Mildland Freeport development at Birmingham's international airport has just been completed by a consortium of local orelitects. The freeport — the first inland project of its kind in the UK — consists of tilorge warehouses together with a cargo centre. cargo centre.
The centre, which is the size

of asoccer pitch includes office space.
The 11 warehouses in the freeport area itself can be sub-divided into smaller units.
The practices involved in Associated Birmingham Architects are Philitps, Cutler, Phillips, Troy and Temple Cox Duncan.



Councillors want say on colours

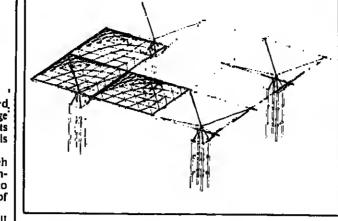
COUNCILLORS in Oxford want to introduce an extra stage, of eonsultation with architects over the colours and materials used on council housing.

At a council meeting last weeh nembers of the housing comnittee suggested they ought to have more say on matters of asle versus durability. But director of housing Bill

Brown said: "I think in terms of material use the most important hing is maintenance. Council officers will now report bach on the fnasibility of an extra consultation stage.

Demolition plan

TAUNTON Deane Council is to demolish 100 pre-cast reinforced concrete homes on the Holway estate in Taunton because of the high coat of repair. The estate will be rebuilt.



Arups hired for Foster's new Stansted terminal

Ove Arup & Partners have been appointed consultant engineers to the British Airports Authority for the initial phases of the new passenger terminal estonsied Airport which has been designed by Fosier Associates. The contract, which covers a prestressed steet roof, the terminal building and part of the forecourt, entails the use of 2,800 tonnes of steel (wolded with 110,000 cleats, lugs and brochets), 4ha of profiled metal dech, 35,000 cubic metres of concrete oud 5,000 tonnes of reinforcement. The terminol roof, litustrated here, is designed to give 36-metre spacing in the concoursa, while roof panels only have to span holf that distance. Erection is scheduled for the spring and summer of 1987. Arups at the Acodemy pages 30-35. Arups at the Acodemy pages 30-35.

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without insurance

US survey finds

architects working

so difficult to obtain. This alarming state of affairs s revealed in a report by the executives of six top architectural and engineering companies together with the US Society for Marketing Professional Ser-

are working without adequate

insurance cover because it is

It says the aumber of insurers or architects has dropped from 2 to three and that the chances of on architect or engineer being refused insurance range from One of the authors, James

Poiret of Corvallis, reported Architects have been tackling that his company's cover had dropped from \$100 million to \$6 the problem by either agreeing a limit to liability in the contract million in three years and that it or by exploiting a US law which was doing \$300 million of worh allows large clients to include design work in their insurance

By John Wood The report costs \$7.50 from SMPS, 801 N Fairfax St, Alexnndria, Va 22314 JS. "We will now walk awny from

■ Lester B Knight & Assohigh-rish projects if the clients ciates of Chicago is being sued by the Illinois Capital Developance," he said. "Wn have walked away from more than \$10 ment Board over the design of nillion in fees during the last six the air-conditioning in its Chicago offices (architect Hel-

Other companies were said to be "self insured" to a much greater degree than they were admitting publiely.

In their defence, the report

says that less than half the claims against architects come from clients and that more than two-

months alone."

mut Jahn). It is claiming damages and attempting to force the com-

pany to repair the cooling system for its 17-storey bloch arranged around an atrium, but Knight claims it meets clinns



Referbishment of the Birmingham Hippodrome to give it a new facade to she a mere 10 wonks from initial briefing to final fixing by Alan Butchar Associated Architecto Saymour Harris Particership specified meave, cream white Alcad grp for the main facade poneiling, and for decorative encopies, coplogs, finials and cornice detoiling. The contract completes the fourth phase of a refurb and redevelopment programme under taken by the Theatre Trust sloce 1980. The former West Midlands County Council provided o £350,000 grant for the work.

Honorary nominations submit nominations for honorary

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eligible for the honour of honor-

Nomications should be sent to the Patrick Harrison by December 31, including the name and address of the nominee, and a brief statement on why the awnrd should be given. If the person's work is nat widely known, references to sources of information would also be helpful.

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by council VAT policy

BUILDING firms in the Mid-lands are being forced to suffer over VAT payments because of Birmingham City Council's payments policies, local contractors claim.

The council's VAT payment system forces firms to break the law or suffer severe eash-flow problems, secording to one

renewal projects are given monthly payments for work carried out. They then have to pay VAT on those payments. But the council does not make a t the council does not make a VAT payment to the builder until completion of a job, which could be up to a year later.

The council has pledged an immediate investigation and has promised to change the paying

Lambeth cash plea

LAMBETH council says £148 million must be spent on housing in the borough next year to avoid a "housing disaster".

Lambeth's elaim is made in the borough's 1987-88 Housing Investment Programme (HIP) the annual cash bid to the government for new liouse-

building, renovation and repair.

News Engineer's claims on Ronan Point shock local team

VOIDED joints found in Ronan Point are well within safe tolerance levels, according to one of the engineers responsible for supervising the original design for Taylor Woodrow Anglian.

Barry Russoff of Phillips Consultants, the firm which supervised all of the blocks built to the Larsen Neilsen system in this country, told BD "the flank wall join to do not need to be fully packed" and only 50 per cent of the mortar specified could be

He conceded that the H2 the bolls. joints at the bottom of the tower would be earrying more "dead weight" and consequently would need more mortar to support the loadbearing flank walls, but said: "Some voiding

would not make them unsafe." Russoff's claims bave shocked local authority experts examining the findings in the con-trolled demolition of Ronan Point. They have labelled the

voiding as a "major defeet". The London Borough of Newham has found:

H2 joiot is up to 50 per cent less than specified by the building's

The in-situ concrete is poorly compacted with voids existing beneath the horizontal reinorcement bars.

By Alan Thompson

 Levelling nuls had not been wound down after the hand packing had been carried out and a significant amount of the load was being transferred via

These defeets have led to uncertainty over the actual path for the flank-wall loads. Newham's engineers have found that the strengthening angles were tnking some of this load and that the flank wall joints would rotate under extreme loading

This could cause an alteration from the existing load path to one which had not been proven and there could be no gus rantee on the stability of the building in a fire or if an explosion occurred.

lapse of Ronan Point in 1968 had not occurred, the block is so badly built it would have fallen down on its own accord."

Newham is not taking any succour from Russoff's remarks. In fact the borough is particularly worned about the standard of workmanship on the lower floors. Engineers say workmanship at that level is

H2 Joint detail showing strengthening and concrete volding. Seminar aims to put faith | The future into the planning system

A DEVELOPMENT Control seminar to explore how the Christian faith should affect planning is being held by the Association of Christians in Planning & Architecture on Saturday, October 18, at the St Clement's Family Centre, Cross Streel, Oxford. Speakers will be Pete Broad-

bent, chair of development and plonning for Islington council. and Peter Robottom, the hu-Tiekels cost £10. Details from

the University and Colleges Christian Fellowship, 18 De Montfort Strect, Leieester LEI

A CONFERENCE on the lon of city centres sponsored by Yarkshire branches oft rough planning officer far RIBA, Royal Town Place Institute and Royal Institute Clintlered Surveyors will held at Kings Manor, Your October 15.

Details from RIBA Yorks Region (0532) 456250.

DISAGREEMENT over the future of Spitalfields Market is ment plans by architect Richard MacCormac and developer

Tower Hamlets, which wants to limit the office space but increase the housing, open space MacCormac is working on

scheme following requests from Tower Hamlets that the office content be limited to 50 per cent of any development of the area. But a spokesman for LET said: "A middle waybetween the

City and Tower Hamlets has to be found, otherwise there will be 'disappointing" no development at oll."

The council has still not seen the scheme by developer Stuart Lipton, with a master plan by Leon Krier. Krier has met Tower Hamlets twice, but is said to be a long way from producing a first draft.

Housing plan

HAMMERSMITH & Fulham council is planning several sehemes to cope with rising homelessness including a shortstay development unit, locating sites for new hostels, and a new-

Commercial hitch for Spitalfields Tiny entry for Drawings Drawings The City Corporation, which wants maximum commercial value from its Sha site, is at odds with the planning authority, Tower Hamlets, which wants is

THE RIBA's search for an architect to design a drawings gallery for Portland Place has had an embarrassing start.

The competition for this prestigious project, launched in July, attracted just 30 entries by the closing date of September

Norman White, of the institute's Clients Advisory Service, dmitted the tiny entry was

But he suggested: "Perhaps

By John Wood

The panel of assessors, chaired by Michael Manser, is now supposed to select a shortist of slx when it meets on

White would not voice an pinion on the entries before the he confirm that all six shortlisted architects had to come from the original 30 entrants.

Many potential competitors may have been deterred by the vagueness of the entire project.

The competition's first stage simply asked for an A3 pane demonstrating the entrant's design shility, 8 CV no longer than two sheets of A4 and 250 words on their approach to the

The shortlisted six will be iven the competition brief and expected to altend n "teach at the RIBA on the history of

They will receive a premium £3,000 and be required to

The winner of this stage wil be commissioned to take the

But the competition's rules state that the project depends on necessary funds being raised and admits that the institute is unable to give a commitment to build the whole of the work and that s phased development may

Site lined up for transformation

stite in the West Greenwich conservation area. The project camprizes an 80-bedroom batet designed by Building Design Partnership, a sheltered bassing schema by Twigg Brown & Partners and an affice, retail and housing scheme

will pravide naew sita far the market which occupies part af the land nad parking far 150 cars. It has also secured n £728,000 arban development grant from the DoE.

Corn Exchange scheme back to the committees

ALSOP Bamet & Lyall'n plans entrance into the basement floor of the Corn Exchange have been referred to yet another council neeting for further talks.

The controversial scheme, wbich is part of a plan to turn the Grade t-listed building Into a major shopping complex, has been referred to a special joint meeting of the planning and development committee, the industry committee, and the end of the year.

municipal services eo mulittee. These three groups sclecied the scheme, backed by developer Mount Provincial & Speciality Shops, after considering other proposals which were aesthetically more acceptable but not as financially

Alsop Barnet & Lyall planup to 2,000sq m of retail space for the building. They expect to put In a planning application at the vironment secretary's consul-

tation paper on the future of

development plans has come from the Association of County

It says national government should interfere less in county planning rather than give councils a detailed blueprint, and elaims the environment secret-

Normal fire regulations require that any shopping mall, no matter how large or small, must have fire ventilation.

When it can take up to 30 minutes to empty a crowded shopping centre, but only 3 minutes to fill it with deadly smoke, fire ventilation can be a major concern.

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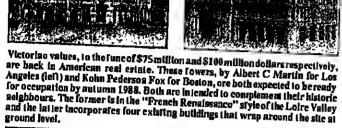
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Message for designers on Legionnaire's Diseas

tion and maintenance of equipment is needed to combat the spread of Legionnaire's Discase, says a top Property Services Agency

Ronald Oughton, head of uilding services at the agency, told a London conference that architects and developera need to understand more about the isease to be able to fight it.

Designers should also acknowledge that their role goes beyond seeing the job built. They should also ensure the equipment (in this case the aironditioning equipment) is easily operated, maintained and replaced if necessary.

Another spenker questioned design, installation, opers- the current policy of switching from wet cooling towers in n

refrigerated dry niternative. Christopher Bartlett, of the Communicable Disease Sur-

By Alan Thompson

be better to spend money on

His research ahowed domestic hot water systems were more likely to spread the disease than air-condit There are up to 200 reported

cases of Legionnaire's Disense in Britain each year. To date the outbreaks have been associated with hotels and hospitals, usually in males over 55 who

smoke and who have an under-

that there is a "strong likeli-

systems. It was up to them to

The most favourable condi-

tions for multiplication of the hacteria are temperatures of between 25 and dodeg C. The multiplication rate declines at higher temperatures and ceases

At the lower end of the scale,

althrough the bacteria does not multiply below 20deg C, if can

Legionella phenmophila bacterin is common und velops in water.

The organism is found in rivers, lakes, and wet soil and has been found in 60 per cent of public and hospital buildings. The most common locations

for the bacteria in buildings are in the hot-water service systems and air-conditioning cooling which is distri-The infection toute requires the contaminated water to be cold-water supp sprnyed into the nir and for this thermally isole aemsnl to be inhaled by an "ar

Dr Geoffrey Brandrett, of the Electricity Conneil Resenreh The fatal outbrea Centre, said engineers and hospital occured designers must acknowledge hood" of very low concenimtions of the micro-organism existing in all open water

eompletely at 46 deg C. At 70 deg net result that a C the organism is killed ininto the hospital

used by the Airca Industry Board.





Design steps to take

designers should: specify equipment which pressure laps and avoids keeping water at between 20 and 45deg C;

ake steps to minimise the locate the cooling dispersal of water as an aerosol by incorporating draught eliminal-



David Backbouse & Associates have spruced up as 1896 effect Manchester into a major shopping areade by the addition of a Library" (ype rear airium. Glasswork for the areade in St Assi Selember 1897) and Selember 1897.

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LONDON, 27-28 NOVEMBER 1986

Conference Chairman: The Lord Scarman OBE. Keynote Speaker: HRH The Prince of Wales. KGKTGCB.

The fundamental point to stress is the urgent need for partnership between the public and private sector, between local politicians, community groups and non-public sources of finance. To restore hope we must have a vision and as source of inspiration. We must sink our differences and cut great swathes through the cat's cradle of red tape which chokes this country from end to end.

HRH The Prince of Wales, 13 June 1986

Building Communities will focus on how people can be better involved in creating and managing the environments in which they live, work and play. It will bring together for the first time all those who hold the keys to the regeneration of local communities: the public, private and voluntary sectors; commerce and industry; professionals and community groups; politicians and the Churches. It will provide a unique forum for information exchange, debate and the development of programmes for action.

It was in 1975 that Dobry's wide-ranging report was published, by a different environment secretary (Anthony Crosland) and from a department whose reaction seemed to many (including Dobry) to be lacking in urgency.

Since then the DoE has gradually implemented many of the Dobry proposals, but planning is again in crisis. Some of the reasons for thia, along with fresb proposals for reform, are to be found in two new reports published, coincidentally, within days of eachother at the end of September: the Fifth Report of the House of Commons Environment Committee: Plonning: Appeals. Coll-in and Mojor Public Inquiries; and Town ond Country Planning: A Report to the Nuffield Foundation2.

The two reports are very different, but can be regarded as present defects, and above all

Taking a tougher line on delays in the system

Tony Aldous anelyses end comperee the recommendations of two recent major reports on wave to improve the regional and local strategic planning system.

usefully complementary. Nuffield (chaired by Lord Flowers with a membership which included Sir Frank Layfield, former RTPI president Jim Amos, and the late Wilf Burns, sometime DoE chief planner) took a broad, long look at the planning system as a whole - at what society should expect of it, and how best to achieve that.

The select committee, chaired former DoE minister Sir Hugh Roasi, focused more narrowly and in a more concentrated way on ways to remedy

the huge and apparently intractable delays in giving planning applicants decisions at both local authority and appeal

Delays there certainly still are. The select committee report (for brevity, "Rossi") indicates that, whereas shout 86 per cent of applications are eventually approved, in some 33 per cent of cases the local planning authority fails to meet the statutory requirement of giving a decision

It was Michael Heseltine who estimated that councils kept be. On this Rossi takes a

about £8,000m of development potential locked up in their filing cabinets; more recently a DoE minister, Lord Elton, has stated that planning delays in written appeals alone cost Britain some £ // million a week.

There is, of course, an element of hyperbole about such statislics. Planning, like any other business, inevitably locks up some capital temporarily pen-ding decisions. Justified criticism focuses on the proportion of that lost potential which is

used as a sanctinu lu ensure compliance with stotutory timetables, but also to discourage time-wasting conduct by halls planning authorities and oppli-

His chief wenpnn is costs,

commendably tough line.

Thus a conneil which refused an application on grounds other than "justifiable planning reasons" and lost on appeal, would stand not only to have costs awarded against it, but compensation for losa. On the other hand, a developer who appealed a second or third time with a imilar development on suhstantially the same site, and inst, could have costs nwnrded

Costs are also used to hack the econd leg of the Russi strutegy: etting the parties in negotiote in dvance and in ngree us great n proportion of the facts as possible. The committee urges costs pennities for failure to negoliate, and for failure in roduce evidence to counter lieged facts if you failed in agree them of the pre-inquiry

Where an LPA fniled in negotiale in the first three indvince the kinds of case months ofter on opplication, the applicant could appeal struight away without writing the full six

More inspectors

What in essence Rossi Is saying to the parties is: "Ciet your net logether. Define the issues, and concentrate the inquiry pro-ceadings on those, if you don't, you'll be pennlised". To back this up, he wants mare inspec-tors, full-time and part-time, and would orm them wilk slatulory powers for setting and inforcing limelables, both for pre-inquiry exchange and eircuation of evidence and at the

actual inquiry. One of the points at which Rossi's and Nuffield's recommendations meet is in calling for central government to provide elear policy guidelines in advance of inquiries so that strategic issues do not need to be hrashed out unnecessarily. A planning inquiry commission

may be an appropriate form inr this; a public local inquiry is not. Where Nuffield goes much further is in urging, in effect, a separation of powers" between central and local government. National policies (continuously reviewed) should be promulgated regularly to cover development where the national interest is genuinely affected; otherwise local planning authorities should be left to work out local policies (again con-tinuously reviewed) lo suit the needs of their communities. Centralised criteria are neither iestrable nor workable.

Nuffield would siso like to see LPAs taking a more positive role in, for instance, buying

shorter and more cities.

Heuse of Comment tall, Sery Office, £6.50, 2 Nufficient tion, 28 Bedford Square, WCtB 3EG, £5 including page.

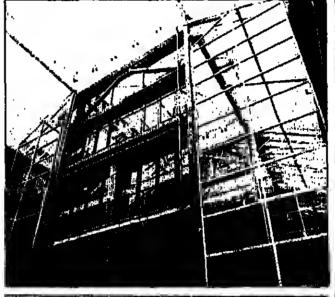
investigations have produced evidence of formalised burials, morinary houses, timber chrines, tramways and major timber cotrance. Building work wiß be completed when the archeological excavation ends.

outduted permissions and: pening up their enlorer But for this, as indeed for operation of effective pluming strategies, they a have assured sources of the and not the subject to they go" of central direction.

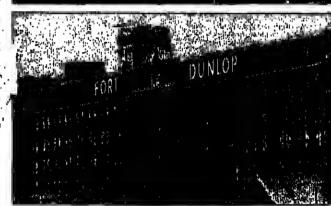
structure plans phased on proposes a three-tlerings for planning decisions misgnidelines, set within 1 & policy framework, and in

Extra layer

Rooms with a view John Brinnon & Partners were architects on the recontly completed refurbishment of the listed Unity Wharf building in London by Selladale Dovelopments. The conversion has provided 1,000sq m of offices and finit flats facing the doch and arranged around the atrium (below).



Infill



Bouncing back

September 26), there are plans to incorporate another as a multi-storay carparh in a retail development. Roife Judd Group Practice to the architect for n 112,500sq m shopping centre na the Fert Dunlop site in Birmlogham, which would retain the t 930s factory building. A planning application has been madely the city council sad the centre could be completed to here years tilt lessecossful.



Digging up the past

When MWT Architecte designed a t4-nnit housing dovelepment in St Albans for Matthow Homes, they didn't expect to nnearth a piece of history. But they did. And MWT director Brun Jones (right) is shown here coming face to face with a .900-yenr-old Roman, The skull, dating from 60AD, is from one of 16 skeletons found on the site

described as the most important Romano-British cremation cemetary to be exerveted. More than 350 cremations have been discovered so far nod initial



chose to publish an article headed "Designer Cheek" with a strapline reading: "Revealed ... why the archi-tects who have outraged Britain choose a nice traditional home every time." Not really a new idea but, you might think, amusing enough in its own way. The works of Stirling, Lasdun, Rogers, Manser and the Smithsons are contrasted with their conventional-looking homes. It was beyond the wit of the author to get himself invited in, so his claim that they are "traditional" could, for all he knows, be absolute drivel, But the more you read, the more drivellish the whole piece becomes. Take this passage

fangled buildings,"

buildings which change a skyline are "new-fangled"? We could give the Jaurnailst, Hugo Davenport, the benefit of the doubt and say that it was others in the Moll empire who rendered his article illiterate and meaningless. But i don't see why we should, since his prose style appears to reflect the jumbled whirl of what pass for ideas in his fevered head. He is suggesting it is wrong for Rogers to design the Lloyd's building unless he designs a house that is like the Lloyd's bullding and then lives in it. Why should this be? Do we ask the wretched Davemport to confine his reading habits to the mendacious ontpourings of the for example: "Architeets have changed Rothermere empire, simply because he happens to write rubbish for it? Another skylines in towns and cities all over Britain. Indeed, many say architects newspoper, the London Standard (a good should be forced to live in their newexample of the sapping effect of a market monopoly) recently carried an item

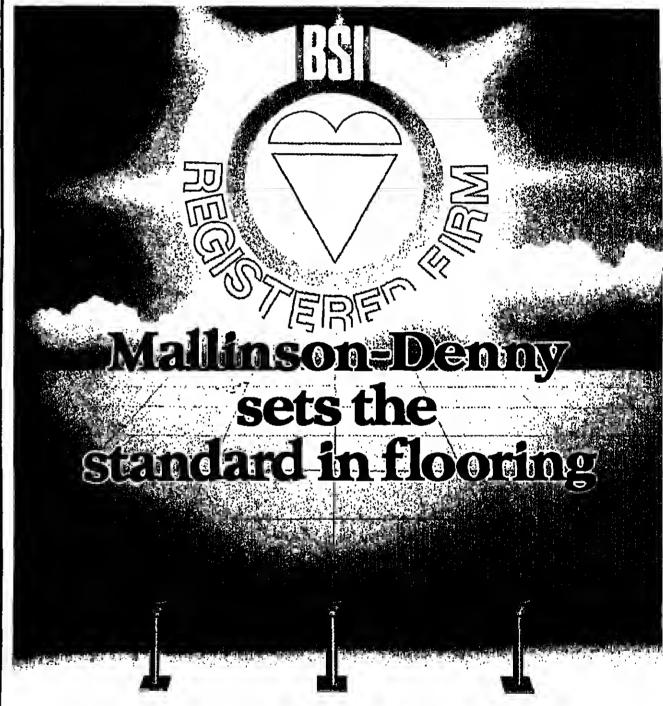
Just a hint of nan-sequitur there? Wrong use af the ward "indeed"?

Perhaps some confusion over whether



attacking Rogers for not living in a flat in a riverside block he has designed. It then destroyed it's own slily point by saying that John Young of the Rogers partner-ship is buying a flat there.

The depressing thing about all this is the absence on the part of the popular press of any apparent interest in good design and how to nehleve it. Doesn't the Mail on Sunday's readership deserve something beller than an out-of-dole rant? Some indication of why the reputation of British architects is high abroad? Why young architects like Nigei Coates keep winning commissions in Japan? Why no newspaper baron has commissioned a decent building in living



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The Nuffield come clearly heard lead for ment's plen, "Whiteha, a our hncks", and agreed at Like Ridley, Nuffield at stricture, pluns pheed at

to genuinely national con-regional strategies, hange but by DoE regional office and local government and

But whereas it grassstate of aholition of structurephs unnecountably banks at the to many will seem the incit. remaining counties cour. The region is a seesible mi! strategic planning; the oc-(as the 1973 Maude Ro demonstrated) is not.

Fniling to grasp this at Nuffield finds itself recome ding mi extra layer - "wz strntegy" and "county date ment plan' silling uota between "regional reports district and local plans. This Inyer we can do without.

Three niher Rossirecom dutions can be mentionede briefly — its proposals on ins; for improving "ma-inquiries; ond on "thidge

On cull-ins it is, baid, asking for o mere const.

1) 1: line. Try ta define. are likely to call in, it urgs.
Among those la be call

mure frequently would applications where the knuthority may have a paid interest in the matter by predictably, it wants the resident by the predictably it wants the predictably it wants to be a right to the predictable to parties in have a right tore cull-in in certain dreumster

On major inquires ("15. special animal"), Rossing grivernment to takes good! lonk of the casts and bears. 'paying realistic compens to those financially disk tngcd" hy proposals subs such Inquirics.

Compensation What It seems lobest

that compensation could the nation less than the tion of a longer, more contested inquiry. la however, the prescriptation other inquiries: pline to concentrale and on the reat issues and This brings the select

mittee to whot for manyor long seemed a logical conduction that the government give lhose (notably volume to the seemed a logical conduction). environmental groups inquiries" assistance tot There are Iwo justified for this: justice, of count

also efficiency. Objectors given add resources to research present their case are more to be able to play their p making the inquiry shorter and more effect

Portion in the pages, fill in the return the enquiry card

Methods unfit for Third World

From John Sholley, Overseos Devolopment Administration I AM still trying to decide what lessons are to be learned from Jim Antoniou's article (September 12): for every proposal he mskes, he explains elsewhore why it cannot work.

Of course we can all quote apocryphal stories such as his about the German prefabricated school system. We all know, too, the atory about granny's body on the roof rack. He is correct in saying that foreign financing usually implies centralised management: with most bilateral or multilateral aid being on a government-to-government basis and frequently comprising large programmes; there is no work-able alternative, particularly when one is desling, for example, with one project for several hundred schools.

In one paragraph he champ-ions the cause of building with local materials, suels as the mud of Sudan, but shortly afterwards admits that the consequent roduction in quality of construction results in inadequate maintenance. What could be more inappropriate than that? Not to speak of the acute absence of local construction

No responsible aid organisation puts money into the bricks and mortar of school buildings without regard to the overall teaching situation, teacher/pupil ratios, class sizes and tesching methodology etc. and a suitable teaching environment, as created by the school building, ia just one more

In the really needy situation one may well have an onrolment of 100 or more in a primary school with only one teacher, and an age distribution from 50 per eent in standard 1 to 5 per cent or less in atsudard 7. Combine this with the introduction of learning by doing rather than learning by rote, and you have, inter alia, the requirement for a large, flexible area, with high natural lighting levels, but adequate shading, good cross-ventilation for children squatting on the floor, but protection from driving mon-

In 25 years of involvement in

examinations.

niques which could produce such a building: what have I missed, Jim?

Even when one could possibly involve the community in the building process --- and presuming that they have any time and energy left after their struggle for survival — there remains the problom, which he identifies, of the technical assistance necessary to organise this, 100 scattered schools could require 100 compotent organisers, and developing countries do not have these kind of manpower

As to involving the bene-ficierica in the design process and in deciding priorities, in my acenario, (and one present involvement) the beneficiaries are 5-9-year-old ehildren, of illiterate tribal families whomay bave never seen a permanent achool building. With the bost will in the world, I cannot see what positive contribution they can make. They can, however mako very negative contri butions, as I know to my cost. I the next village has a "pukka" building, of the entirely in appropriate type which Antoniou dlustrates, perhaps with a leaky flat roof, amall windows and as hot as an oven by the end of the day, that is apt to be the limit of their conception and ambition; that is what they wil ask for, and anything different will be inforior.

Antoniou's delightful sketch illustrates precisely the type of inappropriate, engineer-do-aigned, "pukka" school building prevalent on the Indian subcontinent, with its equivalents worldwide, which we are tryin to move away from. But did i not occur to him that the reason for the classes being held outside might be because the outdoor environment was better than indoors and a better place to teach, particularly if there is a ahady tree nearby? This is no barrier to learning: witness the rise to power of Dr Banda, president of Malawi, who never tirca of reminding us that his primary education tonk place under a tree.

Faculty of

Architects and

In fact, I would dispute entirely Antoniou's final contention. Nowhere in the world has the lack of a cost-effective building in the leas developed world I have come across few, if school. If there is a teacher there

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room, under a tree, in a cowshed while the cows are out, or against a wall in the openair; the building, however important its contribution, is the least important element in the equation. A good primsry school teacher will teach well snywhere, but the best building money can buy will not help a bad teacher.

The lessons I have learned are that one should utilise local techniques and materials as far as is possible without compromising the function of the classroom; to provide the minimum acceptable structure, perhaps no more than a skeleton rame or two end walls and a roof, and to try, through the teachers, to provide guidance as to how the community can be involved in the further improve ment of the sehool.

In a current project in India. the local project architect is producing a teachers' handbook with ideas for building improvements, site development, play sculptures, advice on tree planting, simple furniture, space ividers, display screens etc. designed to be made with local. possibly free, materials and written in the local language. Tbis, I am sure, is the better way to involve the community, Limited financial resources can then be concentrated on providing a basic, sound structure that will withstand the probable complete sbsenee of main-Joho Sheller

Minefield of admissions

From P E Goodmon, Portsmouth Polytechnic FRONT page alarm and des-

pondency seems to be the

hallmark of Amanda Baillieu's

article (September 19).
The Portsmouth school of arehiteeture has not been 'thrown into confusion" and there will be eligible students "without places" under any system unless every higher education course is based on spare places, even for latecomers. Also, if one is going to understand the system, let us have the initials correct, it is PCAS not PECAS.

The entry system to polytochnica over the years has developed into an art. Some admissions tutors carry out interviews for the department; some departments admit without interviews. Whichever system was used in the past the tutor responsible developed a "feel" for the recruitment which on the day of enrolment left the umber of students just about

on target; a skill to be admired. The introduction of PCAS orought with it a subtle change. In the past potential students had paid for UCCA entry and filled all five slots on the form. Wise applicants covered the Alevel low pass situation with one or at most two polytechnic applications; some didn't bother at all. With PCAS, if you have to pay, then "fill up the form, for all realised that they were facing a pick-a-back system, PCAS on UCCA. No one bad played this game before and so very careful to the policy of the months and untruths were dispelled by a whole range of relevant speskers. I am sure the policy of the months and untruths were dispelled by a whole range of relevant speskers. I am sure four places", was a popular game before and so very careful watch had to be kept as to how one could develop a skill under

quite new conditions and in one year hit the target figure. All the old skills of estimating wastage were revised and re-thought in an effort to judge the right way to step. Indeed, it has been a minefield, but only fools bought it would be otherwise. The teachers' dispute hssn't come into the reckoning in my view. Decisions have to be taken on the potential at Interview and/or la references; a long and arduous task. It has meant much

will be a school; in a rented | tration and tutors. The introduction of a new

'computerised" system in concert with another of similar style on a national basis was going to be a difficult task from day one PCAS has been slow and inefficient in some areas but this was to be expected by anyone who thought about it for a moment or two. The clearing system has been hard work. The judgment surely is whether the system is basically good and, will it settle down? Yes, is the answer. It is good news and will be better when it settles down, However, let us keep the "experts" away from changes for changes sakel A mistake PCAS has made is to "wash up" on the effects before the enrolments are

completed.

The monitoring process for entry under PCAS should have been continuous since first applications arrived in September 1985. That has meant monitoring all the time, particularly during the summer vacation where all the finetuning has been done. The frequent discussions on the entry state will be a deal easier for the 1987 entries. We will know the tune and the words a ittle better by that time.

I wonder how many polyeehnies are collecting and sifting data on this year's entries. A careful study of the system. with results achieved, will bear fruit. However, there will be those who throw away the files until crisis time next year. How many polyteehnies have really understood the clearing system and used the sluice gate to open and close to good effect? My advice is to grip PCAS, refine one's ownstyle of approach and settle into what could be a very efficient system producing better-than-expected results for students. Let us wait and examine the A-level score of 1986-87 intakes rather than agonise over a drop in entry requirements. As for how many will turn up on the day, no one has ever known that as an exact

liuman nature — an impossibl

Consulting the experts

From Froncis Colello HAVING been part of the lesign eo-ordination team who helped to create the National Garden Festival, I felt I had to put some sort of reply to Robert Iolden's feature (September

Holden's comments are ypical of many landscape chiteets "on the outside". As the festival draws to an end it will, no doubt, become the fashion for many of my fellow professionals to become "gar-

den festival analysts". I hope, however, that they take eare to establish the facts and perhaps were even keen enough to attend the recent Landscape Institute national conference, where msny of the differently with that background

knowledge. Ultimately we have to accept that it does not matter what landscape architects write or say, because they have to work as a team with other parties who "call the tune" and "pay the piper". In the final analysis, it is the public wbo matter, and at Stoke-on-Trent there has been a satisfaction rate of 95 per cent, 1,500 new jobs created and the city warming to the featival, warts and ali.

Holden's comments are minor, superficial and personal. or defects on the national garden | ising several reunion dinner.

avoid using South Africa

RIBA spurns

INOTE your report (Septem)
19) that the Cudat visit to R

may face a boycott from !

students of the school of ad

tecture. Throughout the wa

uffair, the students have

been approached by the RIL

Just as the RIBA had assus

that the Drypool community

Hull would invite Cudat, st

RIBA have assumed that

students would do their work

them. Cudat may indeed f

it difficult in persuade soy

from the school to co-oper

with them in this exercise.

Underground

From Peter Southgale
ARTHUR Quarmby (Octob
3) is absolutely right. In

njoyment of future generales

frost damage and solar for

Quarmby is right to conder David Higdon (September

because far from destroying

Essex green bolt, an

beautiful adjacent Epping F

solution

students

festival site, design-wiso. The product is good, considering the ime scale, the budgets, and the weather. Many of his comments are a result, perhaps, of a lack of with the year of conferent attendance will be sufficient nderstanding nhout the site (tho inkes are sume 10m above canni level, hardly the best place for a marina), the Potteries area, David Pressle t'O Box No 37 the reclamition of the site topsoil substitutes were used,

ery successfully), or the client. The festival is commercial and has already attracted £6 million in sponsorship, ns a result of not having international restrictions placed ipon it. Commercial pressures were strong and often directly opposed good and tasteful designs, leading to mnny "confrontations", all resolved in the nterests of the festival. There are good answers to all

of Holden's questions, answers that any one of us would have been happy to give, if asked. Perhaps future critics would care to delve a little more dceply and give courtosy to those who toiled long and hard, in circumstances known only by those who were there. Francis Calelta Newcastle-under-Lyme Staffordshire

Fear of approval

From Bob Hewitt, prosidon Institute of Clorks of Works I READ with interest comments y John Newlove, (Scptember 2) regarding JCT 80 — Clause 12 and the clerk of works.

As president and chairman of working party that is reviewng the role of the clerk of works, am aware of many actions that ake place not in accordance with the present forms of

As a practising elerk of works, I cannot understand, if those who work in the industry are providing works to specificfigure; that would be harnessing ation and good practice, what it is they have to fear from an approval process that could save time and money in the building industry. Bab Hewitt London W5

Scandalous adverts

been ming increasingly obia-that the only way to deal with great space gobblers of the 20th contury — shopping on From J Ford I ENCLOSE copies of 33 selvertisements placed in your paper your paper by the RIBA robot factories, educations leisure facilities, warehouse There have been sndless to mention but a few]-ip put them undergrounds debates on how many architocta

sre noeded and how many the surface of the Earling departments of architecture nust close, both in polytechpreserved for the among to nics and universities. Why does the RIBA publish

Undergrounding has es these advertisements? For If mous practical advantaged they mean what they say, the lack of powerful RIBA support - virtually nil or at a well very low running costs, po security, and not least, the to its educational system is benefit to an aiready much scandalous. profession of providing sin ture that is very well protest against those natural enemis uildings, thermal movement

winners

From Dovid Pressley, public relotions monager, Crown Paints LAST year we completed our 40th annual conference for atudents of architecture and interior design. Before 1975 these were known as Walpamur Prize conferences, since when they have developed as the Crown Prize to offer students a travel scholarship worth £2,000.

While planning this year'a conference and the regional colour iectures and exhibitions, it was suggested that we endeavmidnight oil for the adminis- There are no glaring omissions the intention of possibly organour to trace former Walpamur

We shall be delighted to be from any former recipients; All the fascism with the very with the very series of the very series o of the fair

From H I Meyer SPOILED for choice, I did not

South Africa know whether to rejoice with Henry Law and his reasoned argument for the single tax, or react violently to Geoffrey Broadbent's apologia pro classica sua (September 26).

From Jennifer Jones, London

WAS delighted to read to me to turn to the classic encounnews of the new organism and Frank Lloyd Wright back theid, and that one of a suggestions is that we archie avoid using South Afra products.

But the thought occurred to me to turn to the classic encounter between Daniel H Burnham UK Architects Against & the roin Chicago almost 92 years suggestions is that we archie ago, when Uncle Dantook to the mountain snd showed him all the glories of the world, saying: "Beautiful . . . sll beauting: "Beautiful . . . sll beautiful . . . sll beau I suggest that a list of E ing: "Beautiful . . . sll beau-products be published in M tifull I can see sll America that those architects who will constructed along the lines of a world using South Africate fair, innoble dignificatelassic products know which ones style. The great men of the day to specify.

Wright could have had it all, every bit of it. John Root, Burnham's designing partner, hs d just died, Burnhamneeded o talented and onergetic designer to"make no little plans". But as is history, Burnham was turned

From B Spencer, chairmen, E down.
School of Architecture Asso.

But as Wright knew and spent a lifetime demonstrating, to spurn Classical architecture does not mean to embrace sterile dogmatic "moderne" styles. Fascism is not the fun, but the fuoeral, of the flair, and fascism is used to using Classicism whether it is the Besux Art version of the Chicago World's Fair or the sub-topian stripped down arches and endless vistas of Mussolini's Terza Roma and the multi-national modulor of Le Corbusier, or the rigid aoullessness of a Miesian stump and the post-modern posturings of Venturi, Krier and Stirling.

The architecture of Frank Lloyd Wright, Usonian archi-tecture, Broadacre City architecturo, organie architecture, is the third wsy, the alternative style, the true puth of design. Abe Hayeem and Broadbent have set up on two sides anti-establishment, Right verses Left, but arehitecture is not all that. Architecture is about giving a form to the local habitation of society. If that society is unjust its architecture must be Classical, whether stripped-down Corb, functional

jolly-Rogers, or quivering Torry. Only when the society changes to acknowledge the fundamental taws of an organic political economy will organic architecture, the American dream, and true beauty be built.

Until that time, when demoeracy trlumphs and rlds itself of the rotten economic system which issspping its freedoms, sll our architecture will remsin Classical and fascist, Broadbent is right not to enstigate German becsuse it was the language of Hitler. Fascism was not Hitler'a achiovement atone. Fascism grows out of a rotten democracy, and the rottenness of that cy is the natu quence of economic conditions. Conditions which prevail wherever there is private appro-

priation of land rental values. sheltered shopping cily sird the right place could acid benefit it by allowing it cal to be extended right over In fact, the development co development which no country be the classic prototype of it to cater for the late 20th cent on an overcrowded island with can escape except by the estacan ill afford to lose any me land to the traditional solution the land. The private sppropriation of the rent of land is the of submerging the surface of deadly enemy of mankind. If we want a truly organic architec-Earth under an ocean of green ture we must, as in all building, Erte de Maré concrete and tswdry building first cloar the land. Untd then the battle of the styles will rage | Gioz

along with the struggle for life, which should instead be the pursuit of happiness.

From Eric De Moré HENRY Law is wrong (September 26). If scientific price sdjustments were made by paying retailers with new state credits so that goods could be sold below cost prices, the purchasing power of the public would be increased, prices would fall and inflation would be prevented.

"Coupons for sono powder maybe, and why not? Money is compons - or should be, It should not be regarded, as it is now, as being in itself a commoabstraction and, when not abused, one of the most useful nventions of humanity

But now it is being a bused, for humanity is being kept short of purchasing power by the debt system (and by the ethic of toil on which it is based). How then can the taxing of land help the economy? How can any taxes help? Of course, governments need revenue to pay for socia services (including those beastly and expensive weapons which I for one, don't want), but the don't have to raise that revenue

With a few taps on a type-writer they could create sufficient money coupons out of nothing, to use as revenue which would be based on the plethora of physical realities. What i physically possible must be financially possible, and we possess a huge unearned increment of physical realities or which to draw and which is not yet represented by monetary Money isn't wealth and indu

atry doesn't create it. If banks can create credits out of nothing so csn governments - and without charging themselves (or us) huge interest and without piling up false and astronomical debta. (The first charge in every budget is payment of interest of the national debt, most of which has no right to exist; the fact is never mentioned by the media In 1984 the interest was nearly £12,000 million, and it is rising rapidly. About a third of all local rates we pay goes to interest on false indebtedness, but that is never mentioned either.

The situation is complicated l've written a comprehensive book about it which, though byiously he did not read it, was reviled by your critic. You can't but I must add that lilstory and religion have helped to cause our monetary madness, not least the old biblical precent of rewards and punishments. So the purregarded in general as a simple matter of producing and distri-Every country is potentially a buting wealth for the bonefit of fascist country. Germany and the individual but as a means of Italy were but the Jungian expiation for unknown, original srchetype - the arcbetypes for a sins. Are we all gelded by guilt? Puritnnism has much to answer for - not least our ghastly blishment of the equal right to "urbanoid mish-mash", where, all to the occupation and use of to quote G M Hopkins, poet "Generations have trod, have

And all is seared with trade, bleared, smeared with toil."

Louicis

Bathtime creations

IT seems a pity that so much can be written about architecture and so little of it have any

meaning. The latest example which comes to mind is E M Farrelley's article in August's Architectural Review titled "The new spirit". The piece represents the nadir of contemporary architectural

thought and criticism. Farrelly has made little or no attempt to be truly analytical and frankly tells us nothing about architecture today in what might be called resi terms. What we are sold is the latest reactionary nonsense thought up in the bath. It would surely hove been more informative if Farrelly had

discussed the current architectural situation in the context of deological developments and looked at hurd material facts the social, political and economic trends which have affected the profession and the construction industry. Instead her article proceeds on the basis of the

architecture is about changing spints — spints of the age which are manifest in the buildings of a patticular time. Aichitecture becomes self determining and no wouldly things can effect its change. It may be fun and interesting to discuss architecture in terms of a "zeir geist", bu represents a critical tread-

But above all, what was mos disturbing about Farrelly's editorial was the political veneer applied to her writing. I say 'veneer" because the politics became a trendy adjunct to what she wrote rather than bearing any relationship to her discus sion about architecture. Essentially we were left with a description of buildings in visual terms - form separated from

This is surely what we all hope avnid - a too great a preccupation with what a building looks like.

Post-modernism as an "ism" may certainly liave died, but as an ideology it lives on und it will | finul decision will then be taken live on until we have radical sucial change. Call it the now spirit, but the only "new" thing Alon Wood about it is the name. The label is London NW1 spirit, but the only "new" thing

 γ dealest notion that the history of (1) as superficial as the architecture and its apologists. tiastd Magyar London NW6

outstanding

From Alon Wood, housing de velopment camuitiee, Caniden

WAS astounded to read in your magazine that the council "has agreed to appoint outside consultants to determine the future of its Hillview Estate' and that the option of demolition "has now been dropped". No such decisions have been made. The current options are redevelupment and rehabilitation. We will be seeking profes-

sinnal odvice to determine

whether or not there is a realistic option which combines the two. When we have this information we will be appointing an independent agency to carry out a consultation exercise. The by the housing development

Acting on damage

> From K Liddemure, hingarion inanager, City of Bradford Meiropolitan Council
>
> I WAS interested to read the

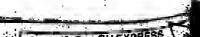
> article by Neil Jones (September 5). It was, however, perhaps unfortunate that the article was published on this date in view of the fact that the Latent Damage Act 1986 was established shortly thereafter. This act does provide for a "longstop" as discussed by Jones. The Act provides, however, that no action shall be brought after the expitation of 15 years from the date on which there occurred any act or omission which is alleged to constitute negligence and to which the damages are claimed, is alleged to be antiburable. While the decision which was the subject of Jones' arricle appeared wrongly to extend the time upon which a breach un duty may be committed, the Act appears to remedy the situation

Enter 13 ON EXPRESS

WHAT DOES AYRSHIRE'S STEEL-TO-STEEL CLADDING MAKE THE REST LOOK LIKE?







Peter Southgate

down to the lower level which

were set into walls of the

building. Moisture enuld there-

fore penetrate into the Inwer

level. It eventually reached and

damaged the pinster on the inner

surface and the decorative

The judge had heard expert

evidence to the effect that it

would have taken one or two

years for the plaster to have been

within six years from the date

when the cause of action accr-

ucd. So it became necessary to

determine in relation to both the

drainage system and the absence

of a damp proof course, preci-

sely when the eause of action

finishes to the plaster.

IT is 13

Geoffr

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ment s land) whose

IF a building owner sues his architect for negligence following the construction of a descrively designed building, when does time begin to run for the purposes of the Limitation Acts?

The rule is easy enough to state - namely the writ must be issued within six years (three for personal injury) from the date when the cause of action acerued. However the difficulty is deciding upon when the cause of action accrues. In negligence actiona it is necessary to establish three elements: a duty of enre owed to the

a breach of that duty by the

 dnmage enused to the plaintiff by renson of that breach of duty by the defendant.

While it is this last issue of

damage which causes ao much difficulty, in that until damage lias been suffered the cause of action does not accrue, this can lead uabaek inton consideration of the first element referred to above. In other words, in respect of what type of damage is the duty of care owed to any particular plaintiff? It is necesary to answer this question before going on to determine when damage was suffered, If economic or financial loss alone s sufficient, then elearly time begins to run from when this eeonomie loss is first suffered. But if, as is often the case, it is necessary to show either physieal damage to property or personal injury, then it is necessary to await the occurrence of such physical damage etc before a cause of action

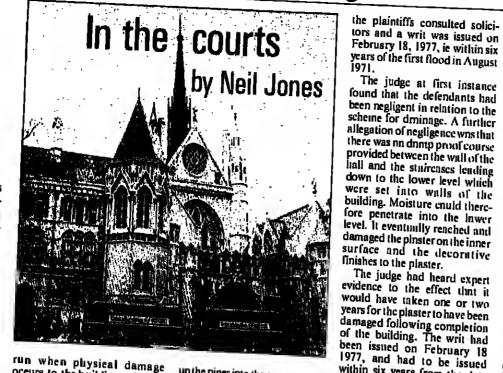
accrues and time begins to run. In relation to professional negligence actions, confusion abounds. For instance, it is quite clear that where the negligence of lawyers, accountants or investment brokers is concerned, the only loss likely to result from their negligence is purely economie or financial. They are damage to property. Therefore the six years begins to run against them at the time when such economie or financial loss is suffered irrespective of whether or not it is discovered, or discoverable, then or later.

Responsibility

What then is the position of an arehiteet or consulting engineer in relation to design work? Assume they are responsible to their clients under the law of negligenee for purely ceonomic losa. Time is then likely to run, at the latest, from when the bullding constructed on the basis of a defective design is completed and handed over even though the descetive design has not yet resulted in detr tion or damage to the building itself. The building owner has taken over a defective building and has therefore suffered economic loss in the sense of its devaluation, or the impending eost of correcting the defect even

J ERLEN CHELL

though he may be unaware of it. On the other hand, if the duty of the architect or consulting engineer is limited to not causing physical damage to the property of their elients, then time will not begin to run aimply because the ding has been defectively



run when physical damage oceurs to the building, whether discovered at the time it oceurs or later. If this is the ease then the six years may not begin to run for some eonsiderable time after the building is completed, when as a result of the defects. physical damage occurs.

In the latest Court of Appea

case on this matter, we therefore

find the som cwhat odd situation

of leading counsel for the

defendant arehiteets attempting

to pursuade the Court of Appeal

that the architects owed a duty

of care to the building owner not

to cause economic loss. This was

in order to show that in having

negligently eaused such loss.

time began to run from the date

that the building was completed.

Thus the building owner's claim

would be statute-barred six

years from that date, rather than

six years from the date when

physical damage had occurred as a result of the defective

design. As we shall see, this lead

to some judicial observations

which do little to ease the

confusion in this area of the law.

London Congregational Union Incorporated v Horris & Harris

(Court of Appeal, July 30, 1986) This ense, at first instance, came

before Judge John Newey QC sitting as Official Referee in

1984. It involved the design by

the defendant architects of a

ehureh and ehurch hall. In order

to accommodate it upon the

up the pipes into the areas around the church hall and flowed into the hall itself. Flooding also occurred subsequently on a total of about 11 occasions. The worst flooding was in 1975. As a result

the plaintiffs consulted solicitors and a writ was issued on February 18, 1977, ie within six years of the first flood in August after they were nut.

At first instance, the judge The judge at first instance had held in relation to the found that the defendants had drainage scheme that the cause been negligent in relation to the of action accrued when the first scheine for dminage. A further flooding took place in August allegation of negligence was that there was nn dnntp proof course provided between the wall of the hall and the sturrenses lending

No damage

He held that there hud been no damage suffered until then and damage was no essential ingredient in the birt of negliingredient in the first of negligence. In relation to the absence of a damp proof course, the judge said he could not be sure from the expert evidence if the first physical illumage to the property had occurred shortly property had occurred shortly before or shortly after February 1971. He thus held that us a constituted physical coarred; the building before agic the decision of the House of occurred;

Both his finding as in when

accrued. If it accrued before damage had been subclaims were statute-barred; if

daninge had common physical daninge at the time February 18, 1971, hey were designed or huilt, lenged in the County levertheless it eau sed, at the date

In relation to the construction economic. Designed Wright & lamage to the plaintiffs ie the defendants, made 17 ost of pinting the drains in entering the drains in submissions, nanely order even if no physical damage that the cause of the course of the cause o

imitation defence has to be raised by a defendant, it was for the defendant to prove that damage had occurred sumetime before six years prior to the issue of the writ. He said that as the evidence was unclear, the defendants had failed to demonstrate this. In neither case was the elaim statute-barred.

Both his finding as to the defendant prior to the issue of drains was superevent the court from acception if the church had occurred they would be accepting these submissions. If on the ered the defect before prevent the Court of Appeal unable to sue the defect before prevent the Court of Appeal unable to sue the defect before this case was within the elaim statute-barred.

Both his finding as to the defendant to prove that damage caused by acrong these submissions. If on the ered the defect before prevent the Court of Appeal unable to sue the defect before this case was within the elaim statute-barred.

Both his finding as to the defendant to prove that damage caused by acrong these submissions. If on the ered the defect before prevent the Court of Appeal unable to sue the defect before prevent the Court of Appeal unable to sue the defect before prevent the Court of Appeal unable to sue the defect before prevent the Court of Appeal unable to sue the defect before prevent the Court of Appeal unable to sue the defect before prevent the court from accepting these submissions. If on the ered the defect before prevent the court from accepting these submissions are the defect before prevent the court from accepting these submissions. If on the ered the defect before prevent the court from accepting the prevent the court from accepting the prevent the edecition of the House of drains was supprevent the court from accepting the prevent the court from accepting the

to give rise to a case, their own negligence in not and his finding thatis, taking avoiding action; defendance to make if the state of the drains was defendants to east of the state of the drains was

took place. accepted by the innjurity of the court, which held that the court was bound by the Pirelli decision. As Lord Justice Cibson

"I can see no relevant difference between the relationship of the defendant consulting engineers in Pirelli to their clients and the relation of the defendant architects in this case to their elients, the United Reformed Church . . . In both cases there was negligent design which was latent in the sense that for a time the building and the Various parts of it functioned as those parts were expected and required to function, and which was later the couse of physical

would be met with plat damage is suffered, namely that damage had been cawhere a building is "doonted

trom the start" time should run - which would repute remedial from the date of completion works, the detendants' submieven before physical damage

These arguments were not

Negligence

damage to the building."

In dealing with the question of whether the cause of action began from the time of actual physical damage to the building or ceonomie damage to the plaintiffs, in the sense that they

ston on this issue was also rejected. The defendants had said that in line with the House of Lords decision in Junior Books v The Vencin Lad (1983) just as the detective floor in that case (which had been laid by the nominated sub-contractorl gave rise to actionable negligence in layour of the building owner, so the installa-

tion of the defectively designed drainage system also gave such a The court, however, said that in the Junior Books case it was the defects resulting from the negligent work which was seen as being the cause of the need to spend money on putting right physical defects in the floor: it was not the mere existence of the faulty elements in design or construction which would lead to the coming into existence of the physical defects at sometime in the future.

In the Junior Books case the building owner who had brought the action had actually suffered physical damage to his property, ie the floor. Prior to the floodhad a defective draininge system not suffered any damage to the the floor has been designed

With respect this particular distinction seems very time and perhaps an added gloss on previous analyses of the Junior Books decision, which has the floor has started to break generally been accepted as up but has not caused any establishing in limited situations damage to any other part of the building. It is simply a defective product in itself. This may have a right to sue for negligently caused economic loss withou been thought from the Junior the need to show physical damage. Accordingly, where it Books decision to have been is the article supplied itself purely economic toss but would which is da maged, eg the floor in now appear arguably to he the Junior Books case, which physical damage; does not cause consequential the floor breaks up and as a physical damage to other parts of the building, then it has other parts of the building. Here generally been accepted that this there is clearly physical damage.

physical damage to property. However, it now appears on the analysis of this case by Gibson L J that Junior Books muy perhaps be regarded as a case on physical dumage. If this is so then we have what appears to be yet a further sub-division, almost certainly inwarranted, and there are now, the following three possibilities. Take for example n negligen-tly designed or negligently laid

is a claim for economic loss not

there has been no deterioration at alt although it is bound at Some point to break up. Prior to hreaking up this is purely economie bass, ic the loss in value or the cost to cure the fault;

Accordingly, in the Londo

Cangregational case the major

ity of the court held that there

was no actionable negligence

until flooding took place and

eould lead to situations where a

defect in the works was dis-

covered but, because it had not

resulted in physical damage, it

could not be the subject of nn

action in negligenee, though, if

ontract. Gibson L.J said:

esult from the defect

Concept

not require that a defendant pay

damages in tort for a defect in

words 'may never lead to any

"Secondly, if a negligent

damage at all to the building'.

applicable, it could he the

The court accepted that this

physical duniage occurred.

adisence of damp proofing, the court did avertuin the first Instance decision. It decided that where it is not clear if the damage first occurred before or after a period beginning six years prior to the issue of the writ, then it is far the plautiff to prove that it occurred only Within the period and not for the defendant to prove initially that it must have occurred before the

> The judge at first instance had misdirected himself as to which party should show exactly when damage first occurred.

building itself was not doomed

even if the dramage system was

Finally, in relation to the

Note that this was a majority decision of two to one. Sir Denys Buckley dissented, on the basis that, in his view, the suffering of economic damage, ie heing saddled with a building with defective drainage which whuld require remedying, was sufficient to found a cause of netiun. Time therefore begun tn run in his view from the date when the building was handed

bject of an action for breach of The majority view means that "For my part, I am not while sulicitors, accountants, impressed with the prophecy of unjust denial of relief to plaininvestment brokers and the like owetheir client a duty of care no tiffs who have discovered n negligent defect but are not financial loss, architects and entitled to relief in contract and consulting engineers do not owe are faced by the prospect of this duty to their clients, but only physical damage which has not yet been caused but is likely to a duty of care to avoid causing physical damage or persona

It follows, therefore, that if say, seven years after a building hns been completed (and a clain for breach of contract has from the date of breach irrespective of when damage was eau-sed) the owner finds that due to negligent design the running eosts for the building are far in design which in Lord Fraser's excess of what they reasonably

> physical damage does result from the negligence at a much later date, the period for which the designer is at risk will be

is shown to be impending, is likely to occur in the immediate future, it seems to me that the law would accept such a situa-

In relation to the "doomed court rejected this as clearly the

"Firstly, of course, the concept of negligence is not inten-ded to afford to owners of buildings rights equivalent to contractual rights. Justice does

> ought to be, there can be no action against the designer. While often this will be good news for the designer, as this case shows, in situations where

defect is discovered and the building owner ean prove an immediate duty of clear need in protection of himself or othera repairs to remove the defect so as to avoid physical damage which

It is now probably beyond even the infinite capacity of reason and logic to bring some sembinnee of order to the present from the start" argument, the state of confusion on this

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smallest possible portion of land, the hall was built underneath the church at about six feet below ground level and the church on top was set at about six feet above ground level. Three small areas at the lower level on the north side of the hall and a larger area at the lower level on its south side were left open and paved. The church was to be reached by going up a short flight of steps and the hell by going down a flight of steps. The design required a scheme to drain the rain water from the open areas around the hall at the lower level and the defendants

devised a system of gulleys connected by pipes to a sewer. The depths of the sewer below the lowest point of the areas was about three foot six inches. This method of disposing the rsin water contained no safeguard against the sewer surc As the hall was set at a lower level than surrounding manholes, if the sewer was going to sureharge, the water would escape by the easiest route. As

the judge said:
"In effect the defendants had created a large tank in which the church hall was situated which could acl as a relief area, a sort of balancing tank for the sewer in the event of it surcharging."

The building was completed January 1970. In August 1971, after heavy rain, the sewer in the street filled with water designed. It will only begin to and surcharged. The water came



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your business or your building And they can be installed it fraction of the time that is need

other systems. Compared to the rest, it's a piece al the aerospace industry, the latest sliming

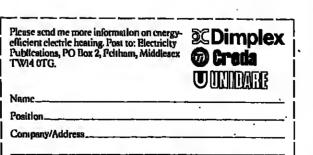
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Easicheck series how to become a Jack of all trades

Henry Heverstock introduces e new year-long series dealing with ell aspects of supervising the building trede.

BUILDING designers must be looking at each trade in turn to find what level of performthemselves possess.

Not many architects are competent plasterers, sealant applicators or masons. Not many can operate an excavntor or a power flont — but work in any one of these trades may have to be rejected by the supervising officer if it is not up to scratch.

VAVAY

For the next year Henry will

ance it is reasonable to expect.

Also when (in what circumstances) it is reasonable to expect craftsmen to exercise their skills. It is often not the tradesman's fault that the work is poor. If he must work off a ladder, in the rain, within a time limit, with second-rate or inappropriate materials, over-

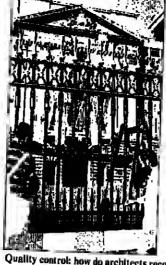
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fumes, without adequate instructions and underpaid... then the result may be "less than satisfactory".

Each trade has its own secrets. Sometimes it may be a knack or an acquired skill, the level of which is dependent on the aptitude of the apprentice. Sometimes it maybe a technique requiring special equipment which allows a job to be done in a way that would be impossible

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Quality control: how do architects recognise a good (or bad) tradesman? without the equipment. The work without the substance of a tradesman may also depend on the quality of the materials, on the accuracy of setting out, on his tools and often simply on

Henry will be discussing how to recognise the good crastsmen. He will also be looking at the work of the villains who cover up bad work and at the pretences and malpractices that give the superficial appearance of good

BRODFORM

you will know a real villain is But more often it is a petty crime such as a squirt of washing-up liquid to fatten the mortar of a screw held in by

wood gine.

Broadly the series of weekly articles will be concerned with now to get a good juh in each of the 20 or so trades to be covered. The specification, the supervision and the site management each playa part. The articles will

The material that the crafts-

The tools and equipment. His (or her) skills and

It is well known that specificntions and mnnufacturers' instructions are not always rendand if they were it is doobtful whether they could cover uil the potential flows in emfismenship hat can mur a job. There is a reluctance to

supervise wark ant only hy architects, who are at palos to point out that they do not make frequent or constant" inspections, but also by the contractors' agents who often try in lure the architect into premature sning-ging to lighten their own admin-

Even where n clerk of works is employed for frequant or constant supervision there is rarely any detailed and comprehensive

Their training may por recognise the difficulties: cralismen.

A few courses now in

However, on actual conti ficial feel for the trade. The he hiring and firing, agai rates, providing access protection and allocating; ticulur craftsmen to park

With so much works subennimeted there is a: creasing tendency to refersopervising officer or cla works directly to the sub tructor - whether the contract is nominated or wi nrchitect is likely to be dist into the discussions - the

Henry's pages will be de Not only with the old ente

nspects of good (or bad) we munship that should be put on, Henry would be grateful the tip. His hotline is 01-7676.

TRIPLE

proper job (when, far example, the paint is over-thinned and the what he should check and level of craftsmanship heat

frost-damaged brickwork is Site management is ingly in the hands of If a donkey jacket is found in a wall cavity, or a roofspace is managers who have no filled with cavity foam inbackground. They are sulation, or the old asphalt goes chosen for their skills at to. back into the melting pot - then shooting rather than for ability to avoid trouble.

will have dealing with it

practical site work to managers a feel for some trades they will be called amanage.

they need more than am,

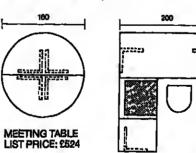
hricklaying, joinery etc, but with newer crafts - th engineer and the ceiling fu If over the next year readers come across spe

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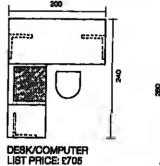


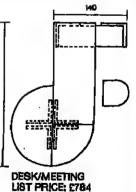
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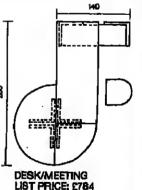




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trating at the time was A burnt

aut case, Oreene's story of a

successful architect who loses

his faith and retreats to work in a

Congo. The story cul minates in

the design and construction of a

new ward block. It is reputedly

based on a true story, and

Hogarth founds he ver v building

in question, designed in a sort of

Did he ever draw a complete

blank? "I nearly did in Corri- Forthergill, architect of many

colonial art deco.

hospital in the then Belgian

"THAT'S the Congo . . that's Nottingliam ... that's Havana . . . that's Berkhamstead . . . " Paul Hogarth was showing mesome of the illustrations from his new book. In case you can't imagine what theme could possibly link these locations, it's a bookful of pictures of Graham Greene settings, colled Graham Greene country, by Paul Hogarth and Graham Greene (Pavilion Books, £17.95).

Hogarth is nearly 69. Bearded, and quietly spoken, he looks upon himself as an artistreporter, and admires those who m Victorian times sent back visual dispatches from the furthest-flung corners of the empire to be published in the Illustrated London News, in the process helping to develop the strong English tradition of illus-

Greene, equally, could merit the title of a novelist-reporter. He speni some time working as a journalist, and even now claims not to create from his imagination - only to describe. The fact Tim Ostler talks to artist-reporter Paul Hogari who travelled 50,000 miles to track down and paint settings of Graham Greene novels. The results have just been published.

real locations meant Hogarth scene of The confidential agent was able to illustrate the novels takes place, is in reality Clactonplaces - to sec all place

from life.

Hogarth has had a long association with Greene, having for more than 20 years provided the illustrations on the cover uf Greene's Penguin editions. But until this project the two had never met. On their first meeting, Hogarth produced a selection of the Latin-American and Caribbean work he had produced for the book. Greene, it secms, was impressed. He be-came fascinated with the pro-

Hogarth has also had a long association with architecture. For architects, perhaps his most famous book is Drawing architecture. But Brian Hatton once described him, uptly enough, as an artist of architectural features, not details. The particular aspects of architecture that seem to interest birn are those that would catch the eye of an

ciate the finer points of archi-tecture — I do. But I douse it as n background for some kind of social comment."

The huildings he likes to draw and paint are objects about which atmosphere has aceumalated over a period of time. "It began on early travels to central and Eastern Europe," he explained, "where for the first time I saw the great cathedrals and palaces. I'm very sensitive to the backwash of history - and I'm very affected by architecture

Hogarth has in the past described himself as a "topographical and satirical illus-

"I'm interested in the social aspect of architecture," he says, "and I use buildings as symbols against which various things happen." Buildings inexorably record the traces of their builders and occupiers, and perhaps in this way topugraphical portruiture comes closest to social comment. A portrait of a person can only recurd one personality. A portrait of a place, because it is formed by an accumulation of personul and social events, has the potential to express the character of that

He referred to a series of watercolours describing the background to The power and he glary, pointing to n drawing ul the gateway to a Mexican cemetery, which hore the legentl 'silencio": "This does feature in the novel. It's no longer classical, as it was described in the book. It was rehullt: but it's equally farbidding."
Following his travels to

Eastern Europe, in the mid-50s Hogarth held an exhibition at the Architectural Association, called "Buildings and People". His work at that time was closely bound up with the theme of the post-war reconstruction of Europe. The "people" in the title referred to those who were

engaged in currying this out.
Todny, by contrast, Hogarth's focus has shifted from the activity of construction to the more passive process of decay. in one sense, a huilding shrouded with scalfulding could be said to be as sketchy and picturesque as a rain. But there seems more to it than that. I asked him if he agreed that his inordinate interest in the decadent and the crumhling was quivalent to Greene's preoccupation with the whisky priest rather than the prisk Jesuit, the lonely traitor rather than the national hero ..?

"Yes, the flawed," said Hogarth, laughing as if in confir-mation, with that audden wheezy heartiness. "I must say I felt completely at home with this kind of subject. I'm very fond of he acedy. It must have sublance: it must have character.

Undnubtedly one E people look at the " painters in public is to ad "Greene and 1 are both travellers, with a background in journalism. I think that's the the artist's view of a score their own. And perhaps connection. We have the wander who are likely to buy this hust, with a compulsion to see Why do we like ta look #

decay". As an example garth gestured towardsag of what looked like a re shack in Sierra Leone, v of The heart of the mon

nut very good at du Lingland. Foreign con

affer me a wider range of: matter, and I visualisethe

huildings I would drawn

and Mexico ... Cuba, Say

The pictures in Ga

lireche country are of

where, in his own words, ?

have frappened and not

happen. Those places

Scobic, melancholyand

the book, it served as asyn

disappeared."

logical frailty of manyoft

nunor positions of pawer Hogarth's extensives

had to he completed in the of a year. After visiting country in his itinerat returned to Britain to dex

work and change his wast

Hogarth had to face white

ich was being mobbed?

lucils while he was top

work: "I rememaer li

drawing a mosque, andt this group of block ters

clambering up a drais

simply to ask me if they

put in for n British (s

scholarship." That the

hugh breaks out again.

were schoolhoys framond

English lines, with blazel

caps. They knew what the

asking for - one of wanted to be a graph

schools that have beeasts

Chief among the diffe

and Vienna."

his own decline, out at Ittustration from Our mon in Havane vred by another petty illustrations if not to compare crat for a bungalow c European quarter. Hogat it in a more positive light 1 mind?

t it very sutisiying to mind?

building in its upon right. Graham Green country has building in its uwn right been far and away Hogarth's was delighted to drawits

— but also us a symbol

colonial are which but

been far and away frogen. It involved biggest projects of ar. It involved visiting 50 cities in 20 countries colonial era which by across four continents — and overcoming innumerable prac-Thus era affers nich sei tical problema in each location. tor the novelist - all "I could never have pulled it off extension, the illustrate at any time before," he said, because of the clashesolo because it needed a tremen-

get the drawings done in the right way at the right time.
"It's an assignment that has

called for a great desl of tuct and diplomacy, as well as stamina - dealing with officialdom; "In and the ability to get a drawing Zaire they wouldn't give me done under any circumstances." To an illustrator of Hogarth's experience, skills such as being able to paint a watercolour in the pouring rain are taken for granted. "That's the journalist's background - a resource which But luckily, in Zaire, most of my I don't believe the average artist drawings were done in a leper generated and the m doug amount of experience to has. You've got to be deter-

mined to get your material. I'll go into someone's bedroom if it

has the right view." What proved more tricky was permission to draw the Congo River - which I did anyway. I could have been arrested. And of course if they put you in jail, you have to prove your innocence - and it's n hell of a job.

Mosque, Freetown, from The heart of the matter The book Hogsrth was illus- entes, northern Argentina, buildings there — including which was the location for The offices where Greene worked as human factor. Then I met, quite by accident, a British emigrant Except for a cor trip round

whose uncle was a fan of Greenc's, and knew all the places that Greene had visited. One surprise for Hogarth was the architectural quality of one place not normally considered particularly exotic. "Nottingham was just as interesting as

Spain with his son to illustrate Mansignor Quixote, every one of the 50,000 miles Hogarth travel-led had to be covered on his own. "It was a lonely business," he

confided. "But Greene agrees: one has to trovel alune, to sayour every moment. You've just got Havana or Haiti," he said, going to go all out, all the hours that on to enthuse about Walter you are there. It's hell while it you are there. It's hell while it

author, not an architect. For this reason, he is not, like Ben iect, enthusiastically contrithat reflects history." Johnson, an architect's artist. buting the essential information "I see architecture as an image about the identity and wherewhich evokes a sentiment — as a abouts of locations. Southcraw, that all his settings are based on for instance, where the final mean to say that I don't sppre- not generally associated with A RANGE OF HIGH QUALITY TRADE PAINTS.

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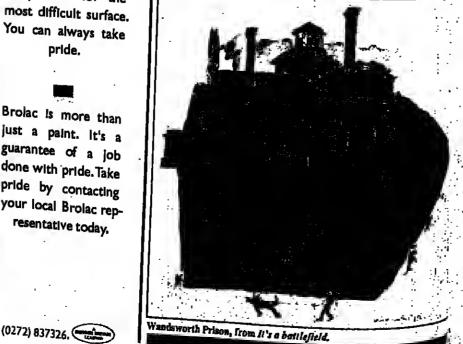
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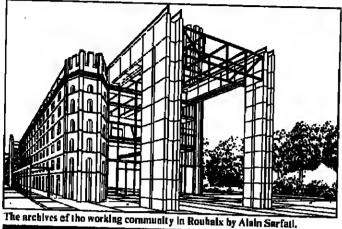
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The Villeurbanne Book, Image and Sound Centre, Architect: Marie Botta.



been using architecture for political ends. First there was the exhibition f "Grands projets (major state

rojects!" staged in the Centre mpidou from early February. Supposedly covering the prin-cipal architectural projects sponsored by the state during

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EVENTS preceding the bicentenory of the revolution (1879-89), it actually omitted recent elections in France any comment on the only such confirmed that the socialist administration there has building erected before the socialist regime, the Centre Pompidou itself, the opening of which began that decade.

ART OF

THE STATE

Judi Loach exemines the political will behind architectural projects in France and deteils the major schemes in progress throughout the

Instead, the host building was simply labelled "the first major international amenity in the capital since the turn of the century". The organisers (rightly) claim that the projects displayed are continuing the the 10 years leading up to the change in the "architectural and

urban physionomy of Paris" which it began. The exhibition confined itself to 10 projects: the Orsay Museum; the Grand Louvre; the International Currefour (literolly "crossroads") of Communication at Tète-Défense; the Arah World Institute; the Opéra Populaire of the Bastille; the National Museum of Science and Industry, the park and the Music City at La Villette; and the new Ministry of Finance. This exhibition seemed to be

designed expressly for the Parisian market - the voters who had already elected Chime. as mayor - since it excluded any incution of the government's provincial projects. This was infortunate, at least from an architectural point of view, hecause this latter category includes the most promising schemes - the School of Dance nt Marseilles by Roland Simounct, highly acclaimed for the new Picasso Museum; the audicious transformation of two fairly noudescript factories into the Carloon-Strip Museum ut Angoulème by Roland Custra; ond the exciting conversion and extension of the Motte-Bossut cotton mills at Roubaix by Alnist

The exhibition, in this Parisinn context, surprisingly neglected the scheine on the Montagne Ste Genevieve and the refurbishment of four mojor museums in the city (the Natural History Museum, the Ethnological Museum, the Palace of Dis-covery and the National Teeltnical Muscum), olthough these had been added to the ufficial list of Grands projets before the exhibition was organised. This only reinforces suspicion of the essentially rhelorical intention behind presenting 10 projects

scule models.

government is com

severe cuts in public a

Hure. True, one At

victims of such cuts

Carrefnur Internation

Communication, which

longer to be used for the

for which it was design

this might save the F

administration from the

rassment that such #

urous (some would

denned) project was bring them; and in and building itself will be come

albeit somewhat fath

restricted to deferring!

completion dates. These

had taken great care to a that virtually all the ac-were too far advanced to

time of the elections for

be dropped afterward

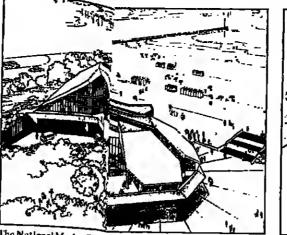
Only scheme not yet to sel

poned, but its asim

from this decade, Secondly, there was the dramatic performance on March 13 n which the president opened the first of the Grands projects to be completed, the new science muscum—the City of Sciences and Industry" - at La Villette. The museum was, however, nowhere near finished by this date and the celebration. altended by tens of thousands of invited suests bere little resemblance to an opening. It was more of a festival to mark the simultaneously sighting of Halley's Comet and the satellite Chotto — which explains the timing of the event, IIpm to

blic reaction to such an ly political use of archites overtly political use of architecture can be deduced from entries in the visitors' book at the Centre Pompidou exhibition. People seem to welcome this massive expenditure by the stale, although perhaps because il is perceived in terms of cultural amenities rather than of architecture, If any single project remains

geographical situation jublous in the eyes of the manin the least feasible, political he street it is no longer I M Pei's yramid "despoliating" the The explanation for it apoleonic courlyard of the government's continue ouvre, despite the strength of the initial protest against it (which, one now suspects, was projects in the cultural quitestraightforward An led mainly by aestholes), but the fure and the aris have been Opera Populaire at the Bastille. major political areas Large number of people and it would be pour



The National Marine Centaler by J Rougerle.

representing a broad se to withdraw support from them. of society visited this the Furthermore, Chirac, us mayor with a fair percentages of Paris, has obvious reasons for hothering to sit throg favouring the development of almost houseless throg favouring the development of almost hour-long we cultural umenities in his own which the architects to city, a fact which Mitterand (a their own projects). We self-proclaimed regionalist) prising of all, however, in seems to have exploited with the that the paperback and emphasis his Grands projets the development of Min place on the capital.

Grands projects. Let h It is not that Chirae has to Mitterand by Francoit offer his electorate "bread and (an entployee of the circuses" in order to keep them financed Institut d'an voting for him (his seat is quite ture), has hit the best-site safe) but rather that his pride in with the major chained the city is akin to that of any sellers unable to keeps regionalist in his own provincial public demand for it. town. By contrast, many of the Such public interest projects outside Paris are su-political exploitationed uated in constituencies where tecture may seem strang the position of the right is more in France, both derivi-

policies of Giscard & ment dare not reduce the notably his "Loi surp funding promised by their tecture" and "1,000 Joc predecessors for fear of the l'Architecture", which: consequent loss of votes and ed to hring architect seats in the next round of town planning into the elections.

Orsay Museum (a museum

Mitternnd bullt at! covering all the arts in France,

foundations: the sort Quai Anatole France (entrance will be from Place Henry de Paris and, later in the Montherlant, rue de Belle-are proof enough of E chasse), Metro: Solferino. The restoration of the exterior is now ion at Centre Pompilo finiahed, but access to the exhibitions of many int prujects. The fact the members of the publics muscum, in December this interior is unlikely to be possible to criticise the Ponipids year. There is no longer any hition (primarily for it) explanatory exhibition on site, mudels) may well be due but part of the future collection is on display in the Musée d'Art through these exhibition of which have focused (Metro: Iena, Alma-Marceau).

The collection will also include But what effect is ike works hitherto displayed on the of government likely wh Jeu de Paume (Metro: Conthese Grands project corde) and the Louvre. For the answer — again perhapt what surprising to Britis that it will probably sail latest information ring Léone Nora, 45-44-41-85.

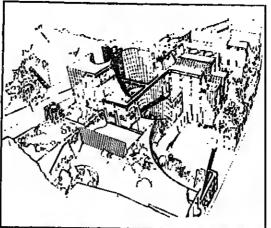
La Granda Louvre drastic, even though & Metro: Palaia Royal.

The permanent display of the archaeological excavations in the Cour Carroe is thready open to the public; the construction of I M Pai's pyramid in the Cour Napoleon will begin thia autumn, and the reception area beneath it should be completed by the end of next year, Meanwhile, there is an explanatory exhibition of the entire project, including an enormous model, it is to now building on the place du Carousel (at the Tulleries end of the Cour Napoleon). For the latest information ring Dominique Gambler, 42-97-09-84 or 42-97-

Téla-Défense (Correfour Inter-RERAI: La Défense. Work began on sile last summer:

most of the structure of Otto you Spreckelsen's cube (or arch) should be finished this year, but may be delayed, as this is the project most affected by the change of government. The last opening date given was late 1988. For the latest information ring Youssef Baccouche, 45-38-

The Arab World Instituta Qual St Bernard, Metro: Jussieu. The building (by the youngish socialist favourite, Jean Nouvel) is oow nearing completion, and explanatory exhibition. For the de Portzamparc's scheme for the



The National Comite Strip Centre, Roland Castro and Jean Remond.

City of Music, to be built at this

end of the park. The opening was scheduled for late 1988, but

will probably be delayed in the

wake of cuts by the new govern-

Montagne St Genevieve (con-

ference centre, principally for promoting the new technologies,

and government offices, mainly

relating to research in such technologies). Park, swimming

munity, and fire station/housing

for firemen). Block contained by

latest information ring Aluin Chenal, 45-49-04-30 The new Ministry of Finance at

Metro: Berey, Quai de la Rapée, Quai de la Gare, Gare de Lyon. (mainly housing stock to replace that lost in clearing the site for the ministry huilding itself) will be finished this summer; work has also begun on the main buildings, whose completing is not due before summer 1988. There is an explanatory exhibition at 16 quai de la Rapée, Bercy. Open Monday-Friday, 10am-7pm and Soturday, 9nm-1pm For latest details ring Brigitte Barcella, 42-97-23-82. The Opéra Populaire at the

Place de la Bastille/rue de Lyon,

Work is under way on site; the

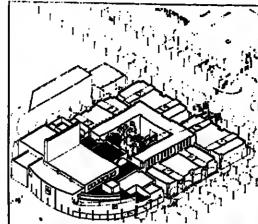
opera is due to open for the 1989-90 season. For further information ring Agnès Dépigny, 48-07-15-20.

Technology (including the Géode, the hemispherical cin ema) the nearest Metro is Porte de La Villette, but for the Grande Halle the nearest metro is Porte de Pantin; the Zenith Ithe hall for pop concerts) lics middle of the park which envelops all the developments at

Although the official opening of the museum took place in spring, some sections did not to the building itself is free, but a charge is made for entry into certain (permanent) exhibitions within it. The Geode is proving particularly popular (don't be put off by the queues to the museum itself - one never has to walt more than 20 minutes to get in, and once inside there's plenty of space for everyone. As tickets for the hourly cinema shows can only be bought on the day, it is advisable to arrive several hours in advance to secure them (one can visit the museum and park while waiting) and to avoid weekends if at all possible. The muscum is open from 2pm to 10pm (closed on Mondaya). Some of the harden of precise the harden of pr in the entrance hall speak English, and can be identified by their special badges. It is possible to hire headphones (in the entrance hall and also on the first floor) for the English Planetarlum.

Concerta are held from time to time in the Zenlih (usually at weekends) and even in the Grande Hall (which is primarily intended for temporary exhibit

The first section of the part (10 hectarcs out of the lotal 35) is also open. The development of La Villetie (and its history) is explained on information panels scattered throughout the park and in free brochures in the museum of from a temporary building by the Porte de Paotin entrance to should be open to the public the park; the latter also contains early next year. There is no a large-scale model of Christian



daylight hours.

Natural History Museum

Jnrdin des Plantes, Metro:

an Evolutinn Museum; opening des Ecoles, rue Monge, rue du Cardinal Lemoine, rue Clovis, rue Desentres: Metro: Curdinal Musée de l'Homme l'anthropo-Lemoine, Manbert-Mutualité. his seheme was completed

some time ago. The gurdens are Palais de Chaillot, Metro: open to the public during Trocadero. The renovation programme here is primnrily concerned with

Monge, Jussien, Gare d'Austertions; the first stage is to be completed next year. Palals de la Découverte (didoctic

the presentation of the collec-

The Zoological Gallery, which has been closed for the last displays explaining bosic scien-

25 years, is to be converted into

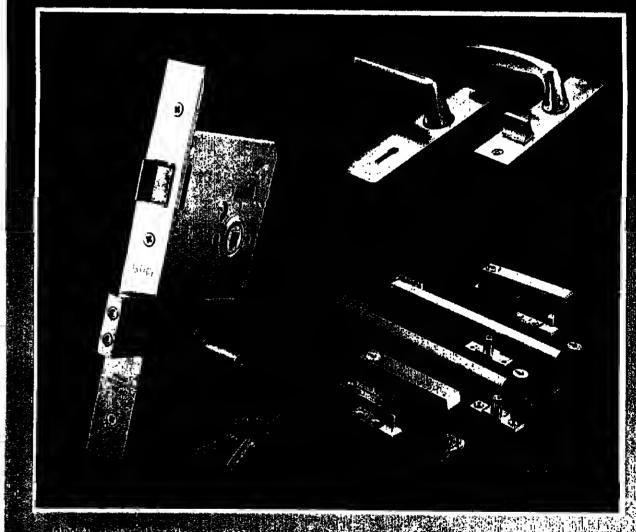
Metro: Clemeneeau. This project is a re-arrangement of collections within their

present huilding. Musée National des Techniques ta collection of tools and muchines from the 17th century onwards).

270 rue St Murtin, Metro Reaumur-Sebastopol, Arts et Metiers.

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Art of the state

internal rearrangement. The Museum of Agricultural Machines, Chartres

This new museum will caver the develapment of agricultural machinery — the major advances in the field, and the influence of these in the ecanomic, palitical and social

The museum is ta be housed in a former steam-engine depot, which is being converted by Robert and Reichen. Completion is due in early 1988.

The National Contemparary Art Centre and the Museum of Cootemparary Art, Grenoble This combines two projects

which have both been discussed for some time. First, there is the creation of a new home for the existing modern art collection in the Musée des Beaux-Arts at Grenoble. This is one of the finest collections of its type in provincial France, due to its curator of the 1920s. Andre Farcy, having been a close friend of Picasso, Matisse and the now in progress.

ill return for a guarantee of their display, at a time when they could not yet sell their warks in Paris or New Yark. It is haused in part of the 19th century museum/library building in the town, an arrangement which benefits neither the collectian nor its setting (a building which is a fine example of its type, but inappropriate for the display of modern art).

Secondly, there is the creation of a centre for contemporary art originally promised by Jack Lang as the place which would take art "beyond Pompidou" (works were to be passed an to other institutions when they reached 15 years of age).

This will camprise both a research centre (library and archives etc) and exhibition galleries. It is to be housed in Gustave Eiffel's Halle Bouchayer, built for the 1900 World Fair at Grenoble; the restoration of the building has been completed, and canversion is

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Projects outside Paris

The Natlanal Camic Strlp Centre, Angaulème
This developed from the an-

nual international Cartoan held in this tawn since 1973. The building, u conversion

and extensian of two existing lactary buildings, has been designed by Raland Castro and Jean Remond (the former being the architect responsible for 'Banlieue '89", a series of interventians in rundown suburban estates. Completian is due in autumn 1988.

The National School of Photography, Arles This develaped fram the International Exhibitian of Photagraphy, held in the 10wn since

It is the first such institution in France, and is apen to overseas students as well as 10 French

The building, a 17th century convent, has been restored and canverted by Jean Massota. It is

One af the mast important archaealogical sites in Gulla-Raman history, excavation began here at the turn of the century but lins never been extended to the whole site. During the next 10 years systematic excavatian will take place over the entire 135 hectares, which will then be turned into a taurist site with its own museum. The urchitects for this praject are Candin and Grillot. The first phase is naw complete. The National Murine Centre,

Baulogne-sur-Mer This will consist of a museum of marine life — murine florii anil fauna, the fishing industry and the exploitation of marine resources - together with a research centre for the exploitation of marine wenlth (effectively a branch of the Science und Industry Museum at La Villettel.

The building will be based on the former Casino, which is being converted and extended by J Rougerie.

The National Music Conservalory, Lyons The present premises of the musie conservatory are too small and lacking in the facilities

The Bibracte Archaeological needed far higher education in music, this institution is to move into the buildings of the former veterinary school, which is being ennverted. In addition a new building alongside will contain an acquistic laboratory and a public auditorium.

The architect is Pierre-André Lablande, and completion is due in May 1987. The Lumière Institute, Lyons

The former brane of the Launière brothers, the inventors of the emema, is a magnificent example id a biairgeois residence in the art nonveau style; for several years now it has housed the National Photographic Centre - a collection of photographs from all periods and a series of galleries for displaying (mostly modern) work. The site adpuning this has now been purchased for the development of an institute specialising in audio-

visual material. The School of Dance, Marseilles A new School of Dance is to be established at Marseilles. It will also provide a permanent base for the Roland Petit National Ballet Company The architectural project consists of the eonversion of a former trum depoi conly 10 minutes hy

Metro from the city on UMMER brings the season responsible is Rolandson f festivals to Paris; crowds best knawn for the 100 to La Villette for evening Museum in Paris the meetaeles and enthusiasts Museum in Paris, the peetaeles and enthusiasts "conversian" is unlike jearch frantically for someinstice to the scheme one with a spare colour film
The Ruyal Ropeing, while local people wander Rochefori

An international Magazinesigned for the 21st century, of Commerce and land, it is now possible to visit and the Protection of the Commerce and land, automated Einstein in the to be housed in the discapency inaugurated Science factory set up by Colle-Museum as late as 10pm. Inte 17th century 10 p Meanwhile, away from the hemp ropes for the jactivity, Tschumi's first folly is

navy. The buildings obeing carefully constructed. by Blondet, are being standing demurely alone on a by Mastorakis, Ouding neat prairie of new grass beside Confrevil and Le Mag the triangle described by clipped the site is being landse poplars, it awaits its initiation.

Bermird Lassus. Similarly, the site for the new The Hook, image and Opera House at the Bastille was Centre, Villeurbanne recently deluged by 400,000 Villenthanne is a new yaung peaple attending a pop outside Lyans, founded concert far SOS Racism. The century agaa by the enew building, at present only a doctor Luzare Goulog hale in the ground, was intended always provided som to facilitate opera on an equally educational facility papular scale. But this has educational facilities, papular scale. But this has unusually nigh standad project—a glorified at the new minister of culture, library—has been deserous Leotard, is determined Mario Batta. Completed to save as much of the planned at the end of next year.

The facilitate opera on an equally education and the planned at the end of next year. means that the Opera House could simply become a musical

auditorium. The machinery intended to create the most efficient operatic auditorium in the world is to be scrapped along with the scenery warkshops. As Pierre Boulez, the French composer appointed vice-president of the project, plaintively

painted out, "to change the estiny of architecture in the process of construction, by making an opera into an auditorium, is an abberatian"

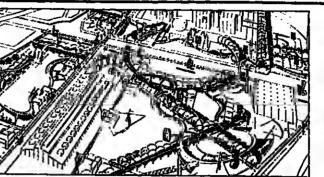
This controversial change in

WINDS OF CHANGE

Juliet Bidgood reports on politically-inspired changes of direction for major Parisian projects.

moving back into the Louvre,

re-erecting partitions demoun-



direction also puts the Music cultural hub of the capital, mare City at La Villette in jeopardy. The commission for a camplex containing a music school, a museum and experimental performance hall was won by Christian de Portzamparc. His office cantinues the seheme enthusiastically but the acoustic tests on the propased oval performance hall, designed in consultation with Boulez, may monumentally and practically, is unfulfilled. The ministry is prove to be futile. The programme may have to change in response to the denatured proposal for the Opera House. ted by the previous Govern-To the east, away from the ment. It is unsure whether this

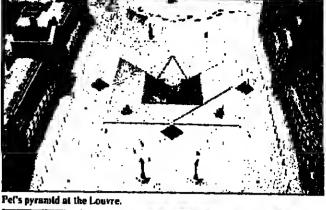
means that the Finance Ministry cranes stand over the massive will not move to the leas concrete pillars which will support the viaduct-like strucor wait until the building ture of the new finance ministry. completed in 1988. Its river front face loaks be-This makes the redevelop nignly over the Seine and and ment af the Louvre, to pped by Pei's pyramid, a little lopsided may eventually come to wonder why the building is sa stiff with just at a time when public impartance, that is if the state opinion was swinging in its function for which it is tailored, avour. The scheme depends on

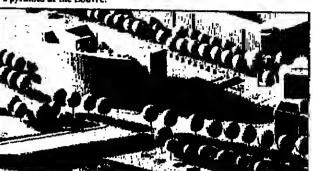
> At the other end af the city's professional axia the public parts of the arch at La Defense

upan rapid completion

the acquisition of the wing to be

vacated by the ministry and alao





The Arab Institute by Jean Nouvet.

are being sold. Its destiny as an International Communications Centre erased; the side towers are already a private concern. The structure, almost at podium level, should now continue at the rate af one floor every four days.

Despite the air of uncertainty one of the Grand projets will be finished untainted by the political winds of change. Jean Nouvel's Arab institute with its envelope almost completed is full of delights. Test panels for the southern camera shutter wall are in positian; behind this

with a spiral tawer which has splendid views over Paris. The museum to the north ends in a knife point, where the facade of fixed, venetian blind-like mul-

lions is being liung in place. Some of the projects such as the Arab institute or Rice. Francis Ritchie's gravity-defying glass additions to the Science Museum, niready bear witness to the potential success af this architectural investment. It can only be hoped that the remaining urban interventians will not foster the kind of compromise facade the library is terminated exemplified by les Halles.





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THE Royal Academy Show that cost £500,000, "New Arehiteeture: Foster, Rogers, Stirling", is exhibited in the prime space at the top of the stairs with Stirling straight ahead, Rogers to the left and Foster to the right.

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It was perhaps also significant on press day that Foster's exhibit was totally complete and in working order, Rogers' was incomplete but the photographic handouts handsome and plentiful, the Stirling/ Wilford exhibits were having the lights tinkered with, and Quinlan Terry was in the background (an ex-Stirling assistant), disparaging the whole effort for the benefit of television cameras.

All the exhibitors are asaociates of the Roynl Academy, but unlike other artists who are privileged to display their works, the brief asked aimply for two projects from each architeet, one built and one a project. This scenario gives a lack of balance, because it is difficult to obtain an overall impression of a designer's eareer from such a narrow spectrum. It would be like asking Elizabeth Frink to display one horse and one maquette: it is neither fair to the artist nor the public.

To make amends, the Royal Academy has issued a splendid educational pack for schools and there is also a well-produced book by Deyan Sudjic to coin-elde with the exhibition. In addition, there is the promise of unchilme lectures on the partleipants, and evening events with contempories like Jeremy Dixon, Piers Gough and Peter Rice talking on New Architecture. Despite all this promotion, there seems to have been a history of problems with the

exhibition design in relation to the three primadonnas; the final arrangements in each area being he result of the trio going their own ways.

At that level, the highest aecolade has to be given to Norman Foster, where the gallery spaces have been made to work to maximum effect. The first salon is dedicated to the Hongkong & Shanghai Bank with large-seale models and crisp drawings plus multiple presentation of slides and soundtrack, the theme setting the seene of Hong Kong as well as telling the story of one of the most ingenious buildings built in this decade. The concept of the building in the city is also demonstrated with ideas for a public space to connect the tower to the waterside.

The second salon is devoted to he unbuilt BBC headquarters in Langham Place and illustrates elearly the enormous range of talent available from the Foster team to explore design options for a demanding elient. It also shows the flexibility that the best of modern design can contribute to society rather than the straitjacket of neo-Georgian favoured by other Royal Acad-

The largeat gallery stands on the opposite and appropriately lest-handed vista, and is occupied by the two Rogers exhibits, the main emphasis being on making a "Cityfor People". The centrepiece is a shimmering lake of real water, poised dangerously at just above sitting level, which leads the eye to a reconstruction of Hungerford Bridge with railway and Embankment traffic jams swept away for a pedestrian and monorail link between the South Bank and Trafalgar Square, plus a collec-





Terminating the axis; the BBC project viewed from Portland Place.

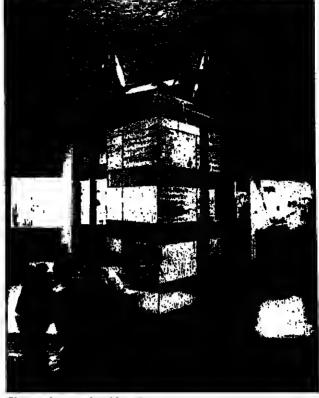
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GOLD YEARS

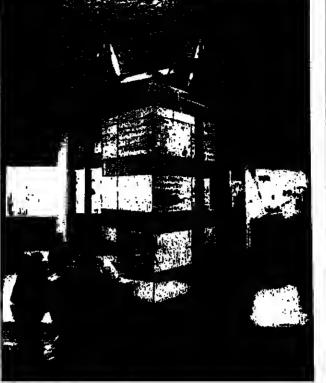
Alan Blanc was at the front of Book Architecture Facility Royal Academy for the opening of "New Architecture: Forking". (Photos: Geoff Beeckmen.)



If at first you don't succeed: BHC massing models. w explanatory model of the Stutigart Staatsgaleria.



Six tons of stone and steel from Stuttgart.



tion of follies and restaurants which look, at first glance, like dismembered parts of Rogers' nbortive National Gallery com-

petition.
All this has been tried before by Edwin Lutyens in a Roman manner, but the attractive parts lightness of the intended struetures, with a pedestrian setting in some ways reminiscent of Hugh Casson's sketches for the '51 Exhibition.

Unfortunately, the technical aspects for denling with traffic below ground are not as competent as the intended works above. It does seem strange that auch a 21st century vision should not be accompanied by six-lane underwater tunnels for both banks instead of just a single four-lane road on the Embank-

ment side.
The Lloyd's building is featured in the context of contributing to the cityscape, but the presentation lacks the sparkle of Foster's multiple slide presentation for the Hongk ong Bank.

The most remarkable aspect of Hong's is the state.

of Lloyd's is that such a conservntive branch of the Establishment should have given the lead in progressive concepts and which has presented the City of London with a world-class building of our own time. The qualities of workmanship and finish shine out from the pictures, the RA having organised tours for younger visitors so that the only home-built work on viewean be seen in reality. What a splendid idea for public participation, let alone educa-tion for the next league of

The connection between the two main protagonists of hi-teelt is explained with small poncis in

spell out in simple terms their earty partnership (1963-67), houses for family and friends, thence Reliance Controls and the larger jobs that came as the practices grew apart. What is not explained is the way that the client, in choosing one or the other, is selecting a systematic design process, whether the budget is lavish or small. Both firms in fact are involved in product development and it was pity that components or furniture were not used as adjunets to the building dis-

My concluding accounde is that Lloyd's and the Hongkong Bank can truly be called 'New Architecture" without the reservations that I have on the third exhibitor.

The captioning at the entry states in the top line STIRLING set nt a distance above his competitors; this raising of status, I suppose, could be attributed to age, or perhaps bulk, I had better confess that the skeleton in Stirling's cupboard, namely the History Library, Cambridge, is a worriquite forgotten when looking at the current work of Stirling and Wilford. I. like many others, was taken in by the library's geo-metrie delights which were recorded in every detail back in

The situation today is a building that has narrowly missed demolition and is in a betkin's masterpieces Highpoint One and Two earne to be in the late 1940s. I make these comparisons deliberately as there is in Stirling's work a eonsiderable element of Inventive geometry reminiscent of





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8

ter Associates' shorted BBC project from Cavendish Squat

that shown by Lubetkin and nf another Russian Constructivist, Konstantin Melnikov.

Of course at Stuttgart, the image has been updated, the skin of tiles replaced by stone veneer and the Caryatids replaced oy dumpy Moscovile Doric columns taken from their metro. Despite these asides the external promenade at the Staatsgalerie is in fact one of the most enjoyable public spaces made by a "modern" and is brought to life at the Academy with a fine series of evocative back-illuminated colour pictures plus a chunk of the building that is put full-size on the central axis as a sculptural

The planto material selected is, however, not perficularly non-est, as it does not demonstrate the poor quality of lighting in the picture gallerics and neu her does it show the heavy diagrid coiling with metal channels (painted the inevitable bilious green) casting shadows on the canvases and walls alike; the other problem for the Staaisgalerie curator being the cross reflections from French windows that occur in most exhioition areas.

Stirling's abandoned Naitonal Gallery project has benefiled in those respects from the Stuttgart experiment, out one has yet to see whether Venturi's efforts will produce as interesting an experience in terms of the volumetric progressions that are Stirling's special-

There is another exhibition concerning British Design, at the Royal College of Art, called "Did Britain Make 11?" It perlains to the "Britain Can Make It" show at the V and A in 1946. It seems relevant to make comparisons between the personalities involved at either end of the 40-year epoch and to end on a pensive and philosophical note, namely how short fame is

ioday.
The "Britain Can Make It" exhibition allegedly cost more than El million to stage (£15 million or so at today's prices) and was aimed at showing how swords could be turned into ploughshares and that "design " had an essential role in this

The architectural designera were relative youngsters with Basil Spence (39) FRS Yorke (40) and James Gardner (40) as compared with Foster 51. Rogers 53 and Stirling 60. The cutting edge of technology in those days was carried by Christopher Nicholson (42) and Wells Coates (51), Nicholson's contribution being a hi-tech office while Coates showed his newly invented windsail; their direction being the line that Foster and Rogers have opened Spence's background was

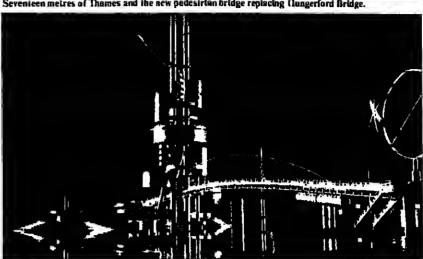
much more conventional, with

at Knightsbridge.

tached, however, then the nther pre-war experience in expensive housebuilding using traditional academicians with architectural axes to grind should be methods, plus a consumate skill with pencil and watercolour. Thera is one final moral, in The designs that made him financial terms, namely the lack tamous in the post-war period of British clients for the New were exhibitions and where Architecture, It is worth spelling Spence's imagination was inout that of the three built jobs. vnived in sculptured speces in only one was in England. The the post-Corbusian mode. His three unbuilt projects were all in permanent ouildings, like Co-London. ventry Cathedral or the Guards Barracks, also had this thentrical quality, but their reputa-tion was marred by technical

"Now Architecture: Foster, Rogers, Stirling" is at the Royal Academy uotil Decamber 21 open 10am-6pm daily, entrance £2.50, concessions for students and unemployad on Sunday mornings. The calalogue book hy Deyan Sudjie (Thames & Hudsoe) is £10.50. difficulties; poor acoustics, airconditioning and lighting at Coventry and a ton of melted ice that amashed the Colonel's car





One can ask students roday

. who was Basil Spence? Few

vill know the answer. Time will

tell whether Spence's reputation will oe salvaged, but one comes

away from the RA show with the

sad feeling that there are con-siderable affinities hetween the

late Sir Basil Spence and James

that there is far less time to

secure success than previously

and the exhibitors at the Ac

other 10 years or so left before

the next generation takes over.

One wishes the three of them a

onger period of fruitful work. but the competitive commercial

world of design is now a

treadmill that wears out many of

One nopes also that the RA

will put architecture again into their main galleries, but next

time will give their publica wider range of examples, as well as the

opportunity for those architects

selected to demonstrate their

work over a lifetime, as any

I have recently been lecturing the States on British architects

and took with me a range o

material end slides from a doze

teading oractices with widely differing attitudes. The RA will

no doubt respond, that is a

specialisi viewpoint. However

he public will come away from the current Foster-Rogers-

Stirling show with avery narrow

idea of the New Architecture That is really a shame, because 40 years have elapsed since the

laat attempt to exhibit buildings at Burlington House. The pre-sent exhibition would not have

happened without the designer

goodwill and enthusiasm plu

tricity Council, Gartner. Otis and Pilkington.

If the art of architecture at the

Academy is going to have

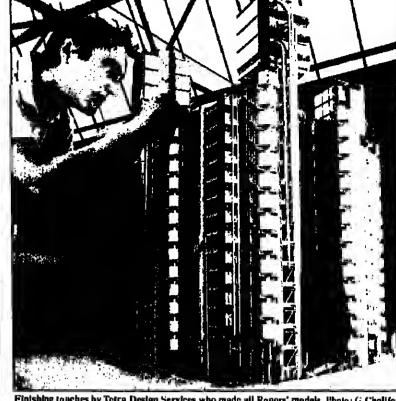
nernus contributions from Bovis, British Gypsum, Canary Wharf Development, Elec-

ther artist would expect.

lie participanta.

One of the difficulties today is

Stirling.



Finisbing touches by Tetra Design Services who made all Rogers' models. Photo: (i Chalifou

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INMOS · Architect : Richard Rogers & Partners

BUILDING DESIGN



Size: 70cm x 91cm (27.5 ins x 36%

True to Rogers' intentions

WHILE Ben Johnson has estab- changing light conditions lished a considerable following through the day. for his remarkable paintings Prompted by photographer bination of engineering and based on architectural projects Ken Kirkwood's night-time architecture" at Inmos and as by Norman Foster and James Stirling, the night view of the central spine of Inmos is his first painting of a Richard Rogers building.

Johnson first visited the pioneering microchip factory in Wales shortly after its opening while the building was still in pristine condition, and he took numerous photographs in the accuracy.

only to discover the spine had been changed virtually beyond recognition. Johnson decided to proceed with a painting but felt impelled to consider his work as a record of the architect's intentions, so he went back to consult the working drawings in be held at Fischer Fine Art in

Johnson sees the painting as a tribute to the "wonderful comshot, he later revisited Inmos, such credits the inspired teamwork of Tony Hunt and Richard Rogers.

The poster offer is made to coincide with the current Academy show, and an exhibition of a selection of Ben Johnson's work from the last four years, to Rogers' office to ensure its London for one month from

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THE Hongkong Bank in many ways represents the engineer's ability to respond to challengeand also to apply innovative and imaginalive technical designs to achieve its architectural ideals, particularly those of elegance and quality.

Althaugh it has been tikened to an affshore jacket structure, the design, analysis and man-ufacture of the bank is very much more advanced and complex. The building embadies a nigh degree of structural integratian with services and architeeture which praduces a compact building af exceptional visual and material quality and efficiency of space utilisation.

There are a number of partieular structural features that make this possible. The 200in high veirendeel masts, which are central to the concept, reduce to a minimum the obstruction of the structure to the internal planning: they allow uninterrupted movement through the main structural elements of the building at all levels.

The suspension structures allow the base of the building to

Ove Arup & Pertners were structural engineers on the six projects in the exhibition. *BD* asked three of the practice directors to describe their involvement, beginning with Jack Zunz.

publie plaza af quality and scale. The framewark eamprises a minimum of components with the aim of providing large span, ealumn-free spaces in which the services and space planning can be organised to the greatest

Modular eomponent design was introduced into the building on a scale not attempted previously in building design, the aim being to improve the installed quality of the building and to reduce the averall time of construction. Of particular note are the 140 prefrabricated and precommissioned service modules, each weighing between 30 and 50 tonnes, which contained be entirely open and creates a the services for the super-

The structural cancept was developed to allow the building massing ta conform to Hong Kong lieight and shadow planning restrictions, but also to allow a future 40 per cent expansion in floor area ta be realised withaut madification and strengthening of the main framework or foundations. The expansion would be realised by infilling the multi-level void atriums in the building and the setbaeks on its east side.

The performance requirements of the structural components of the building have resulted in the application of

technalogy from engineering fields outside af the traditional building industry. Far example, the size and thickness of the tubulnrs within the musts involved the research and Hien the application of mnnufneturing techniques more often associated with pressure vessels. Also, the required performance chur-

acteristics of the connections in the suspension structures led to the introduction of large maintenance-free spherical bearings, normally associated with heavy mechanical engineering applications. Although the fabrication

techniques used Itave been applied in some advanced materials and manufacturing offshore structures, the dimen-

ups and prototypes to demon-strate the acceptability of workmunship and materials. Assurance of the engineering

A cummitment to a formulised analysis approach involving the use of computer techriques to enuble the whole framework model to be generated and modified as required direct from a simple data base.

As an extension to the technique work involved predicing the professional data bases. the design checks for all mem-hers were curried out nutonutically and rigorously, using

Full-scale tests on instrumented prototypes of major structural components to determine stiffness and strength characteristies were carried out. The results of the testing were in

limitations have been much more restricting than for offshore structures, principally because of the transportation and erection limitations limiting the length and weight of elements. Special details had to be developed to reduce the effect of restrictions. The prefinished, prefabricated nature of the building

components required cureful control of manufacturing and cunstruction standards tu ensure the required quality was uchieved in the completed building. Manufacture was generally on an assembly line basis and procurement on a luge inter-national scale; the steel frame-work in the UK, the cladding in the US, the service modules in Jupan etc. In response in these demands, it quality assurance approach was developed for each sub-contract. An essential aspect ul this approach was the extensive use of models, mock-

integrily of the design was founded on the following prin-

element analyses in which feature of the fubricately

Ponents was modelled.

A fundamental and c prelicusive research study& wind regime of Hong Korn commissioned, Further del studies and wind tunndle

Bunk from the east with the Istoto: Inn Lambot).

turn used as a basis for enabled a considered assessment of the local windelimate of the site to be established from which the expected (rather than statutory) wind loading, dy-namie performance of the structure and environmental wind effects on the building cauld be determined.

Mathematical madelling techniques were developed for the prediction of the dynamie performance of the building inder the expected wind loading, from which the dominant aspects of the building response



North-south section showing 6 m dtameter seowater tunnel blasted out some 80m below ground

could be identified and evaluated. Tests on the completed building arc to be carried uut to verify the predictions.

Tolerances and mavements redictions are an important part of the manufacturing nceification for camponents in any building. In the case of the Hongkong Bank, because of the eccentric mass of the huilding and the structurnlindepend-ence of each of the five building zones, the movement of individual components was particularly sensitive to construction sequencing. Simple, global allowanees would have resulted in excessive and unrealistic specifications. As a result, a large effort was made to establish these movements. An approach was developed which modelled the building at each stage of construction and hence enabled predictions of cumulative building movements to be estimated for a range of eonstruction sequences. The prelictions were then used an the pasis for adviaing on the corrective measures required at each

However, in terms of engin-eering risk it is the substructure of the Hangkong Bank which was the most critical. From past projects, the ground conditions in this area of Hang Kong had been shawn to be extremely difficult. The soil succession i fill, marine deposits and eompletcly decompased granite overlying granite at 40m depth. Ground water level is effectively at ground level. The substructure of the bank is a 25m deep multi-level basement with large diameter caisson faundations to

De-watering and exeavation in the soils above rock level were known to produce large ground

rounded by large buildings on

A programme of investigations, studies and analyses was undertaken, aimed at establishing the expected soil properties and preferred construction sequence. The work involved a series of progressively more sophisticated site investigations being minde, in parallel with a programme of non-linear gentechnical finite element back-analyses of the behaviour of recent excuvitions in the local

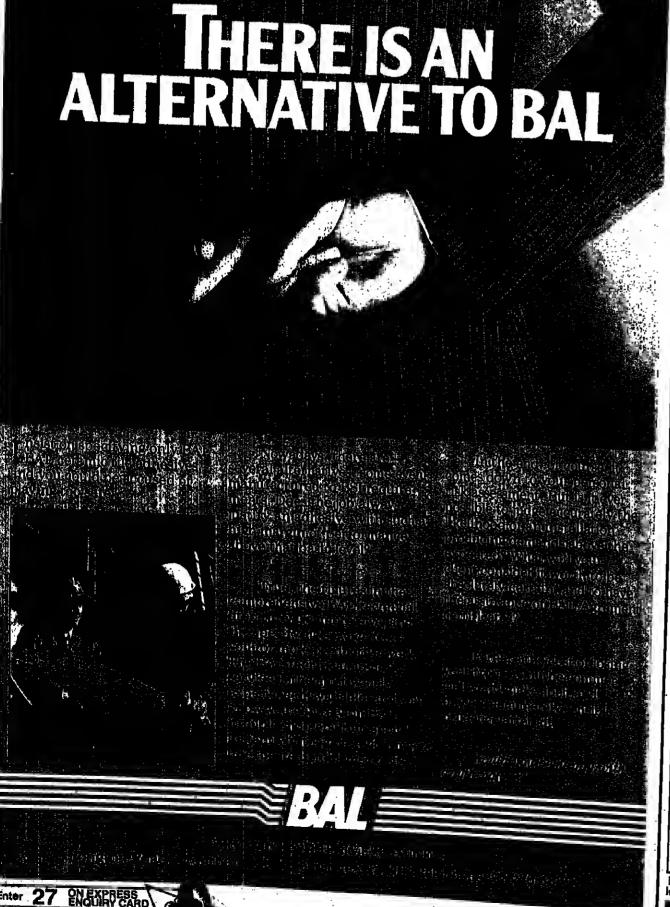
The construction of the substructure was made using a novel combinatian of "top-

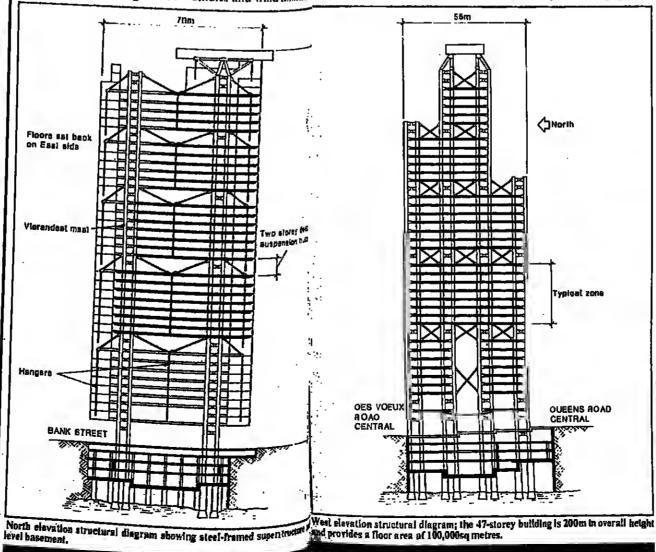
down" and "super-caissons"

eludes a seawater tunnel can-necting the basement to the harbour through a 6m diameter rock tunnel at a depth of 80m below graund level. The tunnel was constructed by blasting and without pressurisation. Extensive studies were made uf the effects af ground water move-ments and blasting upon the huildings above, some uf which were known to be old and in a state of poor repuir. A consprehensive system of measuring

The Hongkong Bank in-

Typical superstructure flaor plan.







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ROGERS REVOLUTION

ly striking features of the design of Lloyd's is the wny the lechnical functions are expressed and used in the archilecture.

For this to succeed at onything other than a superficial level the design must develop as a dialogue between the architect and engineer, who ennnot aimply provide a technical response; he must understand the architectural objectives and take an active part in developing the concept of the building ss be consistent with the subwell as the technical details.

The building consists of a rectangulor block, containing an ntrium, surrounded by six satellite towers and n atock of

basement occupies the entire site. As a hroad principle the muin building above ground contains underwriting and office space, the satellites provide vertical circulation for people and services and the basement contains plantrooms and service activities. Some plant is on the roof and there are plantrooms on top of the sstellite towers. The key engineering and archi-tectural element is the main floor and its columns support, and how the design of this could

servient satellite towers. The most important single aspect of the design is flexibility.

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inability to sdspt to elininging eircumstances. The need for the building to necept change underlies almost all nisjor design

decisions.
The Room occupies the whole of one floor slightly above street level, but this alone is insufficient and the atrium nllows additional underwriting area to be provided, within the single space of the Room, by using gallery levels. This also permits future expansion by converting more galleries to underwriting.

Concentrating lifts, stairs, service risers and toilets into the satellite towers and supporting the main building on external Lloyd's have already had to columns gives nn uninterrupted space within the cladding and

The vertical and main horizontal ventilation duets are run externally for the same reason.

The arrangement of the horizontal layers of the floor and its grio puttern minimises the disruption of internal re-

Although various parts of the design are separate in reality, the design moved forward as a whole with the focus of interest moving from areo to aren in a series of cycles, the development of the design in one urea ifluencing the design in others.

Having decided on the overall shape and arrangement of the main building, the designers were faced with three muin

• The nature of the columns and how they supported the flores.

The stability system.

The size and shape of the latilding and column positions were derived from the site area, plot ratio and choice of a 1.8m grid while the height came from lumning restrictions.

The littor is divided into horizontal zones;

● A 1.8 × 1.8m beam grid. A high-level services zone containing lighting, extract air,

smoke detectors and sprinklers. A steel panel which sits on stub columns at the benm intersections and nets as permanent formwork, supports acoustic panels and provides a services support grid.

 A concrete slah which is n fire barrier and supports a computer linor.

● A low-level services zune cuntaining supply nir, heat pumps, electrical power and

· A mised Hoor which incorporates air inlet grilles and fluor ontlet boxes for communications and power. The ventilation scheme is to

the light fitting, thus removing heat at source. The extract air is taken out to the perimeter where it is taken drewn through one luyer of the triple-glazing before passing into the main external extruct duct at the same level as the supply nir for that Boar. This improves the thermal perform-ance of the cladding and makes prossible the fully glazed lineales which are a feature of the building. The zuning of the fluid shows the decessary standard quality, time and cost supporting the mum floor was supported with the mum f in this way is fundamental to the concept of adaptable spaces ince it allows siquely services to be te-arranged with relative case while lighting, extract and sprinklers occur in every grid.

floth the structure and serrices are exposed, with no lalse ceilings. There were particular architectural requirements for the floor structure:

 The structure should be isntropie in appearance. It was important that the fluor should be seen as a ring ruther than two linked reetningles which meant that thestructure had to be u grid rather than o beam system. This was reinforced by the need to partition offices consistently up to a beam soffit.

The beame thould have parallel sides and sharp arrisses so the eye would be drawn to the soffit rather than up into the coffer. In other words, it should read as a grid of beams rather than a coffered slab.

 The beams could not have oints down the centre. The overall depth had to be as small as possible.

The engineering requirements Strength and stiffness.

To have a system which could be constructed preciacly, with a good finish, within the available time at a reasonable

A variety of atructures were examined and the most promis-ing early solution had full-depth beama in the main span direction with smaller accondary beams flowing around the ring. This gave problems in the corner however and did not reflect the real structural behaviour which had high load concentrations at the column support points — especially on the inside alrium cornar. By strengthening the beama between supports, and by introducing prestressing into
the half-depth beams at the
corners, a more isotropic aolAxonometric of the dealing



Column bracket and brack

companients.

that the design could be be

ution was found which needed.

The trials helped in deciding The next key proke the way construction joints liow to ennstruct the fe would be used in the appearance the coherete quality ness when discussing formwork Three systems of feet design with the subcontractors.

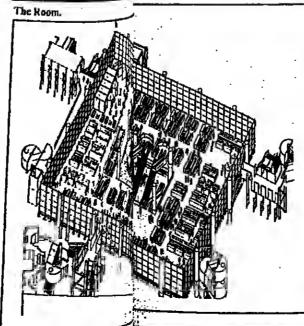
Peter Rice on Lloyd's

supply air from the raised floor and extract at high level through the light fitting, thus removing hear in security for solutions.

The systems of the subcontractors of the subcontractor for the superstructure, opted for a system which could be broken the subcontractors. down. If design was based on folded and welded steel frames system for collapsing is inwards enough for it withdrawn and the third with Wisa ply foces. Neoprene system of timber forms gaskets were built into the metal sections, which also formed could be broken does rebates at joint lines. The componentalized together with A series of full-scale to bolts and wedges with adjustthese systems was carried ment for rolerance Boyes Construction top

The cotumns and bracker





The Room with underwriting box

the construction logic which wos to become the key to ennerete quality was worked out. The logic was that in situ concrete elements should be bounded by pre-cast elements. Thus a rkythm of pre-cast — in situ pre-cast was used consistently throughout the concrete con-struction. This helps control the joints between elements, and means that individual in situ elements could be formed and designed with concrete finish as the main objective. The brocker/ column joint is a prime example of this thinking. The bracket, which is pre-cast, is made very accurately. Thus the highly reinforced columns were tent-plated, enabling the bracket/ column joint to be fitted together simply and correctly.

One very important issue in designing a building where the quality of the building is deendent on details as neuch as the whole is keeping the design conaistent. Teamwork is necessary and vital part of the

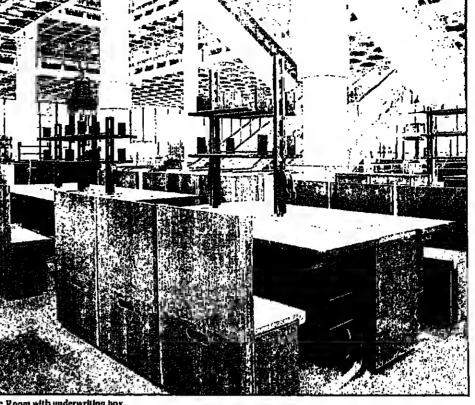
But that teamwork only works if the framework of the design concept is strong. Lloyd's with its strong principles of the way of using the pre-cast and in situ concrete together, to control quality ond to provide articulusexample of the design discipline.
A similar discipline was also used to control the development of the steel detailing for items such nathe lift framework where many individual small details

The atrium and the atrium support steelwork was also an nteresting problem, It was very mportant that there be no confusion between the glazing pattern seen from the inside and the aupporting structure. mega structure — on extension of the main column grid — was used for the main support. The steel support structure was then placed in the plane of the facade nullions so that it would no confuse the general glozing grid.
This organisation also gives a
strong pattern and identity on
the outside where it is mostly
seen from other buildings, and

contribute to total effect.

not close up. The atrium structure illus trntes very well the advantage o strong design rules and a clear design discipline.

It was not solved until quite late in the design, after mony of the main decisions liad beer taken, and there were sceptics i the team who felt that we would be unable to find a satisfactory solution. Once the rules wer allowed to operate freely the solutioo became almost inevit-

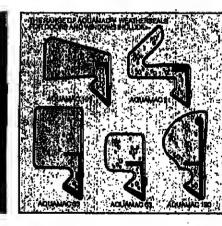


Cross-section through atrium

draughts here AQUAMAC







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galleries is almost totally glazed,

the ceiling void above the

the painlings.

And the second s 李维是一个"大学"的"大学"。

The route winds oround the outside of the centrol sculpture court.

Cecil Balmond discusses Arup's joint involvement in the structures and services for James Stirling, Michael Wilford & Associates' hugaly auccessful Stuttgart Staatagaleria.

anything to go by, the build-The focus of the building complex is a large, open eircular space called the sculpture court. imaginative feature of the round which the various exhi-

opening onto terrace and foyer and round the central court, view the activity of the podium connecting Konrad Adenaucr curving zig-zag ramps. An Strasse at the front of the site and lerrace areas without visitwith Urbanstrassc at the rear,

bition spaces are planned, for the public, which winds up look into the seulpture court and cxternal eladding to the build-The public on this route may are used extensively for the

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colaur enriosan by Louis Heliman. Sel

1: Wright, Le Corbusier (twice), Aslio, Foster, Graves, Mies aud Stirling, Set 2: Gaudi, Mnckintosh, Ralph Erskiue, Aruce Goff, Churles Moore, Laou Krier, Terry Furrelland Philip Johnson.

ing. Contrasting with this traditional look are the twisting glass walls of the foyer, the steel lattice eanopy structures and the angular lines of the elevations themselves; it is a striking mix of

high tech with classical form. Ove Arup & Partners were invited to design the structure and services for the project, as part of a joint venture with Boll for structural engineering and Eser Dittatan Nehring for the engineering services. It was agreed that Arups would lead the engineering design up to scheme singe and then transfer the lead to the German-hased leam for the production of the tender and working drawings.

The client was the local gnyrnment of Bnden-Wurttem.

The initial task for the design team was to work put a struetural and services contrept that would fit the tight plunning of the various levels and yet not raise the huilding height almove that of the existing gallery.

For the structure, downstunding beams were avoided where possible; flour slabs were designed to span directly unto culturing or to he supported by walls serving as full storeyheight bennis. The layout of the services was planned to avoid large itarizontal ducts. Consequently, the pinntroom was atretehed out along the whole length of the building with vertical service risers connected

directly to strategic areas. During the carly concept stage the other matter for debale was whether an expansion joint was desirable. Wherever a joint line could be drawn in the structure the details became extremely contorted. The tight "layering" of the various levels dld not lend itself to independent structural units; the walls located along all external sides of the building removed any "give" in the structure at the edges normally free for expansion and contraction, therefore it had to be a 90m by 100m structure without joints, It was agreed to deal with the problem by simple erack control proeedures, based on the ever distribution of strains induced by temperature and shrinkage.

In the detailed development of the structural design a series of finite element analyses was earried out on the main spanning wall/beam elements. Where stiffer wall elements framed into smaller and more slender elements local elastic stress distributions were calcu-lated to salisfy the checking

The competition brief required maximum use of natural light for viewing exhibits. Initially the upper gallery rooms were planned with fully glazed roofs. As the design progressed, however, areas of glazing were reduced to lower the air-condi-



Lighting and air-conditioner typical gallery space.

tioning load and attendant running costs, but still allowing viewing under natural light fo 76 per ecnt of normal openin For viewing water colours and oil paintings the illumina-ting levels of 50 and 200 lux respectively were specified on the vertical surface 1.5m from the floors. With artificial lighting these levels are achieved by switching eircuits in the upper gallery rooms and by dimming in the temporary exhibition

Natural light is controlled by adjustable motorised louvres mounted in the eeiling void. The substantial nature of these louvres help them to act as antiburgiar devices and also as thermal insulation when fully closed during the winter hours of darkness. The louvres are located beneath the roof glazing and apan onto the top booms o the structural trusses.

Along the bottom boom of the trusses is a steel grillage to support the celling layer which is made up of glass, incorporating an ultra violet filter, which prevents harmful radiation entering the exhibition space.

Extensive tests were earried out with paintings hung in the model room for daylight and artifleial light, using various glazing solutions for the roof and eeiling. It was found that the acle use of float glass produced an unaeceptable green hue to exhibits. This was overcome by incorporating Albarino glass into the system.

Albarino glass has been developed especially for use on solar eells and has very high transmission factors for all wavelengths of light. But expense limits the extent of its use, The final make-up of the glazing evslem was:

At roof level a sandwich of 5mm hick Albarino, I.5mm thick Thermolux-Gespinst, 5mm thick Albarino.

 At roof level a aandwich of 5mm Ihlek Albarino, I.5mm thiek Thermolux-Gespinst, 5mm tillek Albarino.

● At ceiling level lm by Ini triple-glazed panels of 5mm thick Kristal glass, 12mm thick nir gap, 5mm thick Albarino, 12mm thick air gap, 9mm thick laminated glass incorporating a Imm thick UV filter.

For maintenance of the cellings and the daylight control louvres in the roof spaces catwalks and permanent move able trolleys were provided within the roof zone, integrated into the structure and services

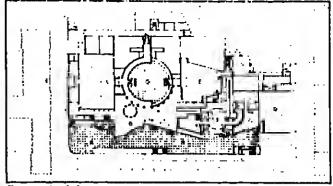
planning concept.
With the elient's technical



experts the air-conditioning air is ducted from the basement systems serving the gallery air-handling plant to distribute rooms were designed to mainalong the edges of the 2m high tain temperatures at around ceiling void. The supply air is discharged at high level, allow velocity, around the perimeter 23deg C during summer; 19deg C during winter. of the rooms and extracted at

Spray washers, containing alkalinc water, together with high-efficiency filters, were incorporated in the air-hendling plant serving the exhibition spaces in order to prevent sulphur dioxide present in the external air damaging the exhibits. The system also incorported frost protection eoils and pre-filters, all located at the fresh sir intake plenum

For the upper gallery rooms



Estrance-level plan.

solar heat reclaim via the roof, which in turn is used to preheat the building's fresh air supplies. In the theatre areas a 100 per

cent recirculation of return air is incorporated to facilitate a rapid heating or cooling of the space. The supply and extract system were accommodated at high level, above the metal grid ceilings and in the wall linings of the theatre. Supply is through banks of nozzles set in the wall linings while extract is through holes in the cunerete ceiling.

gallerics is treated as a buffer zonc, with its own dediented air-Work on site began in 1978 conditioning systems. This und the job was cumpleted in reduces the air-conditioning load in the gallcrics, permitting building construction depart- exciting and rewarding.

ment, the Staathochbauami, octed as project manager on all phases of the project.

Not unexpectedly, Stirling's innuvative design caused some critical dehate, mainly among the local architectural fratemity, when he won the competition. Now the ingenuity of the design nut only receives much acclaim from the critics, but isso ohviously expressed by the public's enjoyment of the build-

Thuse of us in the Ove Arup & Pariners' team who were fortunnie enough to work on the Msy 1984. The client's own state project found the experience

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Return of a classic

By Alan Blanc

Italian Gardens of the Renalssance, J L Shepherd and G A Jellicoe (Academy Editions.

It is a real pleasure to find one's favourite volume on Italian gardens back in print

I should explain that I started eribbing from Shepherd and Jellicoe's musterpiece with the RIBA Library copy, back in 1946, when faced with a weekend esquisse . . . A Garden in N

I have subsequently persnaded Kew 10 prepare slides ni the key illustrations and these have been used for my landscape ectures at Kew Gardens since 1964. More recently I have lurned the pages for inspiration with work at Plas Newyd (III.a), nnd finally, this spring as a Fulbright textbook for West Const students at Washington State University. One can say that I know the masterpice

VIIIa Madama, Rapha The work by Shepherd and lelliene, in fact, dutes back to 923 when these two young fellows from the fourth year ni the AA set out on their year-long grand tour of Europe, the topic of Itulium gurdens being the suggestion of their year master, L H Bucknell. The duties al

patting tagether the first edition were shared, with Shepherd prinducing all the splendid renderings, ink sketches and photographs, while Jellicae did the legwurk on surveys plus the descriptive writing. Sir Geolfrey's "swnn peamniship" is as erisp today as times past, and there's a well-balanced foreword that sets down the crucial ilosophy behind the work.

Villa Medici. Flesole, Midd

Jellicoe's theme:

principle suggested that the

of the gardens should gol

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gradually in their somme

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verse of this was a way a higher ideal. It almed the

garden should merge act

There is nne garden sien:

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shed, the Villa Lantest Be-

The excited stream of

pours from the woods, the hillside, and floods interes

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The illustrations and text are timeless, the solidity of the sketches showing with perfect elarity the architectural structure of landscape, devised by such Italiun masters as Bru-mante, Ligorin, Michelozzi and Vignnia (III B & C). The range is, in fuet, very wide and pravides an excellent record in terms of graphics and photo-graphs of these great gardens as they appeared to two enthusi-

It would be interesting to seem companion volume that tells of the state of these places today and huw repairs have or have

A more significant gramble from my Ynnkeestudents would be the extraordinary way in which the figures and plates are still numerated. I know from personal experience that It all ielps to get in know the book back to front, but I do consider that the 1986 reader might be offered cupillans throughout and an index.

Such grouses shift away us ine turns the pages (almost rnwn Polin) instend of fumbing through Tironti's stingy illion of 53 and when one can walk through" nne's chosen nradise with plnn, section and hotography available to guide ne mind's eye Ihruugh light nucl hade parterre and water, and all ne delights of that garden of the world, whether it be the Roman ampagna, Tuscany or Venetia. There are sylvan words to of formality in the square

guide the thoughts sale garden below." following is offered lother-Other words like Jellicoe's 1925 notion of Formality and wish to follow Sir Ged Design could perhaps turn the tide back from tame Neoclassic "The most general cost

or deadly social-realist vistas as

dreamt up by Bofil, Krier and

Glovannt de Udine and Gtulio Romano.

Formality and Design (circa 1925): "The bases of abstract design, running through history like a silver thread, are independent of race and age. Their one unchanging form of expressio is through a pattern, both a wholesome admission of human limitation, and a sturdy foundation from which afterwards to build. Pattern is the architectural prolotype of the formality of life, and in the same way is modified by the circumstances

of the moment, principally those governing the relation of for-

mality to informality. In any design where nature is admitted such as the garden, this relationship is the first consideration."

The spacial sequences and their cbb and flow as illustrated by Jellieoe and Shepherd are very different from the deadpan space filling seen in Bofil's "parterre" for a dried-up river bed in Valencia. The latter does not lead the eye but blocks it at every opportunity

The visual delights prepared by the late John Chiene Shepherd (1896-1978) make the that should be on every archi-icel's bookshelf whether a "landscaper" or not; should the reader be afflicted by postmodernism then Italian Gardens would show them that "Fings ain't what they used to be".



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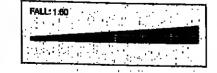
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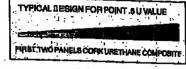
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This concern, over what could become an expensive concept and one of limited worth, has now

excited the Construction Industry
excited the Construction Industry
Research and Information
Association [CIRIA] into activity.
In July this year the first meeting
of a new working party took place
to look into the whole business of

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QA. It will try to answer such questions as; how will QA be applied? what will it cost? who will y? who will set the standards?



It is hoped that the new working party will provide a chunnel through which information can be exchanged between various bodies and so promote co-operation and u common understanding of the needs of the industry.

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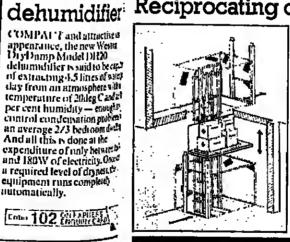
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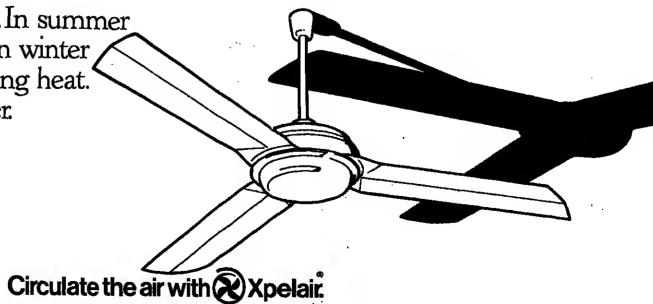
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Cygnet laboratory furniture for the experience of a lifetime

Cygnet Joinery Ltd. are specialists in the manufacture of industrial and medical laboratory furniture and DHSS/MDB hospital furniture.

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Fume Cupboards

Cygnair 1000 new generation fume cupboards are competitively priced with exceptionally low energy consumption. They give maximum operator protection conforming to BS5726 and are attractively designed.
Cygnair also complies with the requirements of DD80. (See publication PH22).

Hospital Furniture

Cygnet have for several years been a selected manufacturer of MDB furniture for the DHSS hospital programme. In addition to MDB/CDB (see publication PH20) Cygnet offer an extremely competitive in-house range. A full installation service is also available. Fill in the coupon for further details.



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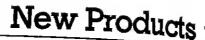
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Graftemen in Laboratory Furniture so 2.1 ligher Swan Lane, Bolton 3L3 3AH Tel: Bolton (0204) 62121 Telex: 635393

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Conservatories

MACHIN Designs has introduced a new range of all-aluminium conservatories. These supplement its previous range of combined wood and aluminium noscryatories. The aluminium form of construction frees Machin Design from the size limitations of ts previous type of structure. This menas that the new range of onservatories is particularly ntuble for large commercial introses, such as shopping malls.

Enter 135 PALL XPILLON

FR Glass

SCHOTT Glass points out that its fire-resistant glass, Pyrun, has one significant advantage over ulternative fire-resisting glasses—me thickness of glass satisfies ull fire ratings. Purpo is not mired or fire ratings. Pymn is not wired or laminated, it does not crack in intense heat and it stays clear at ulf times. What is more, it is only 6.5mm thick and weighs no more than 15kg per square metre whether mied at 30 minutes or two hours. This makes massive insulated fire-resisting screens

TOSCHI mnn-made, usbestos-free slates are now available in this enuntry from Allan Blann. Three features set Toschi slates apart from its rivals. First is the Strongshight propers which

Strenschicht process which concentrates more pigment in the upper layers of the fibre comen

base; seemed is the entire conting of the shife (edges, back and front) with acrylic to inhihit efflorescence; und finally, the packing of 20 states with paper interleaving to avaid scuffing or seemtching.

Enter 138 ONEXPIRES

NFRA-RED sensors activate the

Hand dryer

Man-made slates

Pavers

TWO textures of change have been launched by Ba Brick, the company which types of facing and engine hricks. These wireculpuci initially supplied in bis-10 be juined by red, reduction of 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 100 x 63mm in finish textures or 200 x 63mm in finish textures or 2 finish lextures are smooth drugged. The payeo have classification and a weer absorption less than I pro-

Enter 137 ON EXPRESS

Gas ridge

Enter 140 ONEXPRES

FOR use with the Hadron of concrete slates, Robert Abraham has introduced in

Enter 142 CHIE XIPLESS Composite cladding

Wide-span glazing

SAID to be a new concept in natural light structures. Duplus Domes has introduced Lightspan for use in covered ways, bridge walkways and similar structures. In

a recent four-page colour leaflet Duplus Domes has explained the

service it offers, which includes a

am of consultants on hand to

Lightspan consists of aluminium franting in various finishes,

glazing in several glazing materials

nelp the designer with any problems during all stages of work.

ned with single or double-

Technical literature

Profiles Ziorde of Signernatians Zinterrop profess en hous the PME allowiald product strong rode after other benchmark, in person rikkalist her bidle doet and profesion



PACKAGEO nearly into a six-page gate-fold leafler — all you need to know about Trinsul three-piece composite eladding from Precision Metal Farming. It gives full technical information, dividinfull technical information, dividing the range into two groups — those which give U values lower than 0.6 and those with U values Inwer than 0.4. In addition to design data, the leaflet contains installation recummendations and gives a series of drawings showing flashing

Friter 143 ON EXPRESS

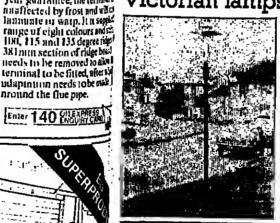
Moveable walls

TRACKWALL has introduced a new four-page RIBA data sheet covering its Trackwall moves ble, fire-rated neoustie panel system. Packed with useful detail drawings this sheet explains how Trackwall unita can be easily stored and. when extended, can give high levels of sound attenuation between djoining rooms. The system is dirtually maintenance-free and can be operated by unskilled personnel. Panel heights up to 11m can be supplied with a double skin steel construction, filled with acoustic



Enter 144 CHEXPRESS

ridge terminal which matter apex ridge tiles. Covered po year guarantee, the terminals Victorian lamps



VICTORIAN and Edwardian style street lamps in the English Street Furniture range are Illustrated in a new colour brochure. Containing sufficient information for the specifier Ia make a choice from this company's extensive range, the brochure gives details of all the available option extras, like photoelectric switches, time switches and choices of finishes, Shatterproof glazing is standard for all ESF's

Enter 145 ENEMPRESSAO



Take the new Building Regulations. The Building Control Officers and Approved Inspectors have been studying these for some time; they are the authority. Bound to be one up on you when it comes to the nitty gritty.

But there are one or two important things you should really know. First and foremost the Regulations the mselves, quite a alim document

are the law. The rest, Manual and Approved Documents, show you how you might choose to meet those regulations. It's the same as the old by e laws. They were in one typesace, the 'deemed to satisfy' provisions were in another and therefore

Any previously approved Celcon form of construction will meet the requirements of the new regulations. For Celcon nothing has changed. Take for instance, insulation. 125 mm of suitably finished Celcon Solar inner leaf to brickwork gives

you 0.6 and therefore meets that regulation.

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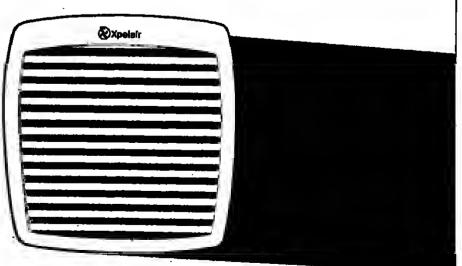
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BUILDING DESIGN, October 10, 1988 41

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PH21 PH22 PH20

ND 10/86

Laboratory Furniture

8010-10

FIRE CURTAIN

A REAL breakthrough has been announced by Wormald Building Products, its new Pyroshield fire Products. Its new Pyroshield fire curtain has been tested by the Warrington Research Centre for more than five hours without failure. Its integrity remained unbreached until the 296th minute and it achieved the insulation rating of 180 minutes.

This is no autounding result coosidering that the insulation feature of BS 476: Part 8; 1972 is never a mandatory requirement in

hour fire shutter is to insulfice doors with a space believed. Now Wormald in achievagh result with a single piece of equipment which looks rains a huge roller blind, the "febrowhich is made up of gallymid steel curtain units, filled with imineral wool insulation. Their descends as a double curtain event of fire to totally seal the opening, which can have a situp to 12m.

Enter 141 Che the 18

never a maodatory requirement in present bullding legislation. The oormal approach to a four-

Urban Conservation: politics & values, seminar organised by Oxford Polytechnic.
Venue: Oxford Polytechnic, Headington, Oxford. 9.30am. Delalls: Carolin Tidbury (0865)

New developments in practice, annual conference of the Venue: Sedgwick Centre, London

Saturday and Sunday 20th century living in houses of the past, a two-day lecture series organised by the Huntingdon

Details: Jeanne Radford (0272)

Venue: The Huntingdon Centre, The Vineyards, Sath BAI 5NA.

The use of stone in building, an

standing committee on natural

Veoue: Geological Museum, Exhibition Road, London SW7

Cost: £25 per delegate, £8.50 for

Details: The Secretary SJCNS, 82

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students registered with architectural schools.

Decoding the wind code, tutorial organised by the Building Research Tuesday Luochtime lecture on Norman Faster by Alastair Sest, editor of Venue: Building Research Designer magezine. establishment, Garston, Watford. WD2 7JR. Vanue: Reynolds Room, Royal Academy of Arta, Burlington House, Piccadilly, London W1. Details: RAA, 01-6367076.

Cost: £46. Those attending the tutorial should bring their copy of the eode with them, copies are available from the British Standards Institution at 61 Green Street, London WI or 195 afternoon course organised by the Pentonville Road, London NI. Detalls: Patricia Rowley BRE, Garston, Watford WD2 7JR. Tel:

Details: Charlotte Dale, 01-580

Wednesday Structural surveys, seminar organised by Liverpool Polytechnic, Department of Surveying. Venue: Tickled Trout Hotel, Preston New Road, Samlesbury, Low-cost CAD workshop organised by the Building Services Research and Information Association. Details: Ann Noblett, 01-229 2488. Preston, Lancs. 1.30pm-6pm. Cost: £25. Details: Anne Roberts, 051-207

3581 (ext 2601/2602). Wednesday-Friday Three one-day "hands on" compute workshops, Venue: The Contruction Industry Association, Quildhall Place, Cambridge C82 3QQ. Datalls: Information Officer, CICA (0223) 311246.

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Wednesday
Value for money — Planning gain:
kow to calculate it, one-day course
organised by Oxford Polytechnic.
Venue: Oxford Polytechnic. Headington, Oxford. Cost: £25. Betalls: Carolin Tidbury (0865)

Design energy and airports, organised by the RIDA. Venue: Hatfield Lodge Hotel, on the Al Hatfield Hertfordshire.

Details: Regional Energy Efficiency Officer (East), Room 227, Ebury Bridge House, 2-18 Ebury Bridge Road, London SWI 8QD, Tel: 01-730 9678 (ext 375).

Wednesday - Thursday Building Regulations and approved documents, a workshop organised jointly by Salford University and RICS NW Building Surveyors Venue: University of Salford, Salford M5 4WT.

Detalls: Trevor Mole, Departmen of Engineering, Civil Engineering, Salford University, 061 736 5843 (ext 7117) or Meriel Carboni PICUP development officer (ext

Architects and their work, lecture by Renzo Piano, building workshop,

Group, Lockington Hall, Kegworth, Derby 7-7.30pm. Details: Phil Reach (05097) 2772. Thursday A future for existing buildings, two seminars on refurbishment seminars on returbishment organised by CIBSE. Venue; Building Engineering Centre, Balham, London SW12. Cost: Whole day, CIBSE members £37.95 non-members, £49.45. Detalls; CIBSE, Delta House, 222 Balham High Road, London SW12 918.

watercolours. Venue: Gulldhall Gallery,

Winchester, Hampshire Details: (0962) 62751.

Until October 15

Until October 18

paintings and models. Venue: Opera House Phase I

Until October 25

Detalls: 01-636 0974.

Until October 31

extension, James Street, Covent Garden, London WC2, Monday-Saturday 12,30pm-7.30pm.

Plus minus, exhibition of the paper sculptures of Kisa Kawakima.

Venue: Architectural Association, 34-36 Bedford Square, London WC18 3ES.

Until October 31
With man in mind, an exhibition of two projecte from Belgrade,
Yugoslavie: an investigation into alternative urban models by Dr
Milos Perovic and a proposal for the reconstruction of Central New Belgrade by Dr Milos Perovic and

organised by the Architectural

Venue RiBA, 66 Portland Place,

Right to roam, lecture by Roger

Clark, assistant director of the

Venue: East Midlands Landscape

Detalls: RIBA 01-580 5533.

Countryside Commission

Friday until November 14 Tadao

Ando: breathing gennietry, exhi-bition of the Japanese architeet's

work. Venue: 911 gallery 26-28 Cramer Street, London W1M 311E. Details: 911 gallery, 01-486 3555.

Exhibitions Coming soon Saturday until November 3 Ruth Duckworth and Jonel Leach:

October 18 Development control: negatine Page 39 positive, seminar organized by Association of Christians in New ceramics.
Venue: British Crnfts Centre, 43
Earlham Street, London W C211.
Details: British Crafts Centre, 01-Saturday until November 9 Keith Bennett drawings and

Revolving removations.

Venue: Building Centre Gallery,
Store Street, London WC | E 787,
Monday-Fridny 9,30pm to 5,15pm.
Saturday loam-4pm.
Details: Marilyn Wint,01-637 1022

Branislay Stojanavic.

Until October 31

Venuc: Second-floor gallery, t 66 Portland Place, London S.

Details: RIBA, 01-580 5513.

contemporary arts centre mediatheque in Nimes,

Until December 21

Until October 18
New designs in furniture and lighting constructions — Linda Green.
Veoue: Prescote Oallery, 369 High Street, Edinburgh EH1 1PW.
Details: Prescote Oallery, 031-225 User later laces, galeray at bottleneck? a conference of by the Gottleb Dutweilm Vanue: The Gottlich Dutt Until October 25
Proposals for the Royal Opera
House, Covent Garden by Jeremy
Dixon, BDP, including drawings,

37 16. October 20-23 October 20-23
Resonding to the Audit Conreport (Saving energy in los
authorities), a residental oufor senior management in los
authorities organised by the
for Energy Studies.
Venue: Avery Hill College.

Dstalls: Centre for Energy South Bank Polytechnic, Mar Road, London SEI OAA.

Academy of Arts, Builington House, Piccadilly, London Details: AAA 01-636 7076.

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Ituliding—a seminar for system or gunised by the British Study Institution. Venue: BSI Conference Center IMTEC GROUP PLC Hampdon, House, Green Sunt.
Landon W1.
Page 42 Enquiry no 44 Details: Gordon Oraham,
Marketing Department, Bil
Millon Keynes MKI46LE

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For an spelication form and job description contact: Personnel Department, Mid Sussex District Council, "Osklands", Oaklands Road, Haywards Heath, West Sussex RH16 186 (Tel: 0444 468168 Ext. 2278). Closing date 27.10.86.

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The salary offered with be within Scala 5/6/801 of the National Joint Council Scale (£8,391 to £11,271 per annum). Application forms and full details are available from the Parsonnel Officar, The Guifdhall, Cambridge C82 3QJ, telephone number 388977, ext. 270, to whom applic ahould be returned not later than 24th

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Successful candidates will be expected to meet the following

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to hold a degrae/diploma in erchitecture and be a compatent designer with a sound knowledge of building construction moving towards his/her professional prectice examination.

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2) 83/6 £6,606-10,164 Dependent upon quelification/experience Houre: FULL TIME

If you are interested in either of the above posts and feel that you could become a useful mamber of the Property Department, please apply to the Head of Manpower Services at County Hell, Bedford, Tel: Bedford 228288, or for an informal discussion telephone the Design Manager, Mr B Dickinson, at County Hell on Bedford (0234)

Closing date: 24th October 1888.

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Planning & Development **Architectural Division**

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Currently the Architectural Division consists of six architectural design. groups, one landscape group, quantity surveyors and deli-works. The current landscape establishment is eight post; the group is likely to expand in the near future to 14, gMMP

scope for personal development. The group hendles a wide variety of projects include anvironmentel improvements, new build and rehabilish housing lendscapes, urban programme schemae, new partiri Improvemente to existing parke, canala, town schemes advising other council deperiments and community of lactions on landscape metters.

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Job chare epplications will be welcomed with or without spar Application forms are available from Recruitmani Office, 14 Hall, Mere Street, E8 1EA or telephone 01-886 5331 (24 to answering service) quoting reference RM383/BD. Closing date: 24th October, 1986.

The Council Inlends to decentrelise its services, therefore duties, hours of work or location of this post may be subject



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e planner/erchilect wishing to geln experience in the urben design aspects of lown planning.

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77 Endell Street

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oung Architect with a practical reach to design. Salary negotial depending on experience. ARCHITECTURAL ASSISTANT/ TECHNICIAN

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> needed to join established cooperative practice working on publicly funded new-build and rehab projects in North and East London. We are looking for someone qualified to take charge of projects from inception to completion and share in the running of the practice (lormal qualifications are not essential). We positively welcome applications from black people, women and people with disabilities (although we regret there is no wheelchair access to the office). Salary £14,000 basic.

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BUILDING DESIGN, October 10, 1986 61

CLERK OF WORKS

DIGITAL EQUIPMENT COMPANY LTD REQUIRE A CLERK OF WORKS FOR A LOGISTICS CENTRE **BUILDING IN WARRINGTON, LANCS.** The project is to start in November end the appointment will be los

approximately 9 montha The successful epplicant must show proticioncy in all espects of

quelity controte nd site administration, should be conversent with apphisticated mechanical and electrical installations and, initially, will be required to work with the consultant Structural Engineer, Experience of construction using lightweight cledding systems will be en edventege.

Appticanta should roply, in writing, giving tull details of qualifications and experience and the names of two relatees to Hugh Lane-Davies, Dip. Arch., RI&A

Scott, Brownrigg and Turner, Architects Bradsione Brook, Shalford, Guildford,

Interviews will be hold in London.

UTTLESFORD DISTRICT COUNCIL **DEPARTMENT OF HOUSING AND BUILDING SERVICES**

CLERK OF WORKS \$4/\$5 (£7,311 · £9,216)

a wide range of building and anginearing contracts. There is a particular heavy work-load to be dealt with over the next few years and with the expansion of Stansted Airport, the indications are that this trend will continue. The present Senior Clark of Works is due to rathe in three years time and this will create an opportunity for promotion.

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Applications (no terms) accompanied by curriculus vitas and names and addresses of two referees to: Director of Housing and Building Services, Utilistord District Council, Council Offices, Dabdan Road, Saffron Valden, Essex, by noon 22nd October 1988.

DISTRICT COUNCIL OF UTTLESFORD

ARCHITECTURAL TECHNICIAN/ DRAUGHTSMEN

The Ministry of Agriculture, Fisheries and Food has vacancies for three Architectural Technician/Draughtsmen at its Regional Offices in Aberystwyth, Reading and Leeds. The posts offer a unique opportunity to work on varied and

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Good draughting skills are required but previous experience in the agricultural sector is not a pre-requisite Candidates (men and women) must have either:

a) an ONC in Building or Construction, or an equivalen qualification, and have an aggregate of at least four years recognised training (eg apprenticeship), which may include up

training experience or: b) an HNC in the appropriate subject and have an aggregate of at least four years' recognised training (eg apprenticeship) which

may include up to three years' relevant full-time study. Candidates would be expected to bring examples of their drawing

work if invited for interview. Salary ranges from £7.490 to £9.869 and will depend on experience.

The grade is also subject to special staged increases which will provide a salary maximum of £11,130 at 1.1.89 in addition to any

31et October 1986) write to: Miss T. Lennon MAFF, Room 609, Victory House, 30-34 Kingsway, London, WC9B 6TU

annual pay awards. For further details and application form (to be returned by

Tel: 01 405 4310 Ext 710

Please send your CY tor-Nicky Southin at TSE-FP, 59 Compton Road, London N1 2YT or telephone us on 01-359 0221 for an informal discussion. CLIVEDEN ARCHITECTS